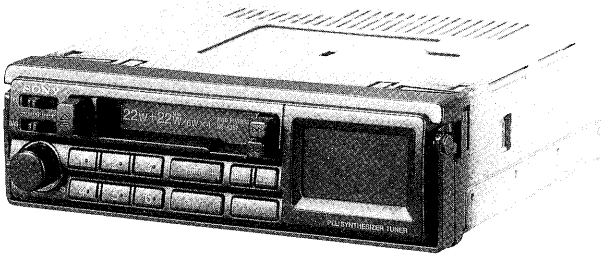
XR-4350/4357

SERVICE MANUAL

US Model
Canadian Model
XR-4357
Panama Model
AEP Model
E Model
XR-4350



Model Name Using Similar Mechanism	XR-6077
Tape Transport Mechanism Type	MG-36SV-32

SPECIFICATIONS

Audio Power Specifications (US MODEL ONLY)

POWER OUTPUT AND TOTAL HARMONIC DISTORTION
9 watts per channel minimum continuous average power into 4 ohms, both channels driven, from 30 to 20,000 Hz with no more than 1% total harmonic distortion.

Other Specifications

Power amplifier section

Output: Speaker outputs (sure seal connectors)
Speaker impedance: 4 - 8 ohms
Maximum power output:
22 W + 22 W (at 4 ohms)*
(XR-4357/XR-4350 : AEP)
30W + 30W (at 4 ohms)
(XR-4350 : E, Panama)
*Measured at 14.4 V

Cassette player section

Tape track: 4-track 2-channel stereo
Frequency response: 30 - 15,000 Hz
Signal-to-noise ratio: 55 dB
Wow and flutter: 0.15 % (WRMS)

Tuner section

FM

Tuning range: 87.5 - 108 MHz (XR-4350 : AEP, E)
87.9 - 107.9 MHz
(XR-4357/XR-4350 : Panama)
Antenna terminal: External antenna connector
Intermediate frequency: 10.7 MHz
Usable sensitivity: 13 dB (75 ohms)
Selectivity: 70 dB at 400 kHz
Signal-to-noise ratio: 66 dB (stereo), 69 dB (mono)
Harmonic distortion at 1 kHz: 0.9 % (stereo), 0.5 % (mono)
Separation: 35 dB at 1 kHz
Frequency response: 30 - 15,000 Hz
Capture ratio: 2 dB

AM

Tuning range: 531 - 1.602 kHz (XR-4350 : AEP, E)
530 - 1.710 kHz
(XR-4357/XR-4350 : Panama)
Antenna terminal: External antenna connector
Intermediate frequency: 450 kHz
Sensitivity: 35 µV

General

Output lead: Power antenna relay control lead
Tone controls: Bass : ± 8 dB at 100 Hz
Treble : ± 8 dB at 10 kHz
Power requirements: 12 V DC car battery
(negative ground)
Dimensions: Approx. 186 × 57 × 165 mm (w/h/d)
($7\frac{3}{8} \times 2\frac{1}{4} \times 6\frac{1}{2}$ inches)
not incl. projecting parts and controls
Mounting dimensions: Approx. 182 × 53 × 145 mm (w/h/d)
($7\frac{1}{4} \times 2\frac{1}{8} \times 5\frac{3}{4}$ inches)
not incl. projecting parts and controls
Weight: Approx. 1.4 kg (3 lb 1 oz)
Accessories supplied: Mounting hardware (1 set)

Design and specifications subject to change without notice.

FM/AM CASSETTE CARSTEREO

SONY®

Features

Tuner section
- **SSIR (Sony Super Interference Rejection) PLL synthesizer tuner** for precise tuning.
- **Memory preset tuning** allows you to store 6 stations on the AM band and 18 stations on the FM band in memory.

Cassette deck section
The auto-reverse function changes the tape direction automatically.

Power amplifier section
Fader control for playback with a 4-speaker system.

General
Slide-out security bracket allows you to take the unit away with you when you leave your car.

CAUTION
Danger of explosion if the lithium battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the equipment manufacturer. Discard used batteries according to manufacturer's instruction.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Notes on Cassettes

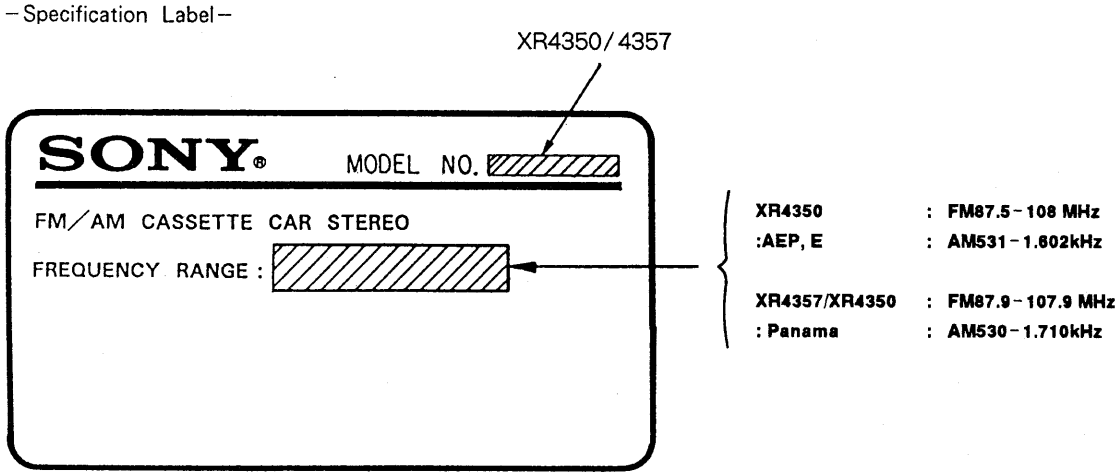
Cassette care
- Avoid touching the tape surface of a cassette, as any dirt or dust may contaminate the head.
- Keep cassettes away from equipments with magnets such as speakers and amplifiers, as erasure or distortion of the recorded tape could occur.
- Do not expose cassettes to direct sunlight, extremely cold temperatures or moisture.

Note on cassettes longer than 90 minutes
The use of cassettes longer than 90 minutes is not recommended except for long continuous playback.

To prevent the unit from being stolen
When you leave your car, remove the unit from the bracket and take it away with you.
Be sure to turn off the power of the unit before removing the unit. Otherwise you may hear a noise.

MODEL IDENTIFICATION

–Specification Label–



CAUTION

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the equipment manufacturer. Discard used batteries according to manufacturer's instructions.

ADVARSEL!
Lithiumbatteri – Eksplosionsfare ved fejlagtig håndtering.
Udskiftning må kun ske med batteri
af samme fabrikat og type.
Lever det brugte batteri tilbage til leverandøren.

ADVARSEL

Lithiumbatteri – Eksplosjonsfare.
Ved utskifting benyttes kun batteri som
anbefalt av apparatfabrikanten.
Brukt batteri returneres apparatleverandøren.

VARNING

Explosionsfara vid felaktigt batteribyte.
Använd samma batterityp eller en likvärdig
typ som rekommenderas av apparattillverkaren.
Kassera använt batteri enligt gällande
föreskrifter.

VAROITUS

Paristo voi räjähtää, jos se on virheellisesti asennettu. Vaihda paristo ainoastaan laitevalmistajan suosittelemaan tyyppiin. Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.

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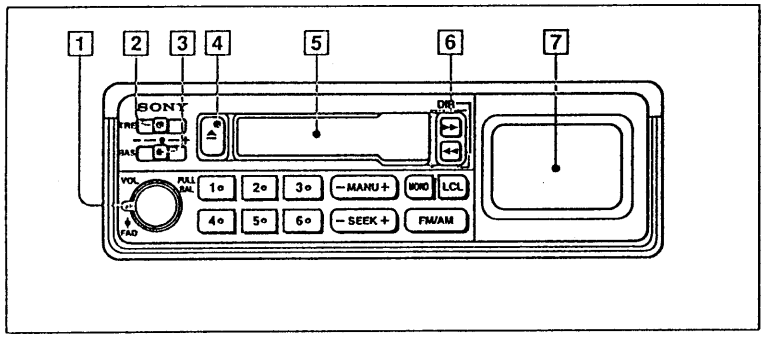
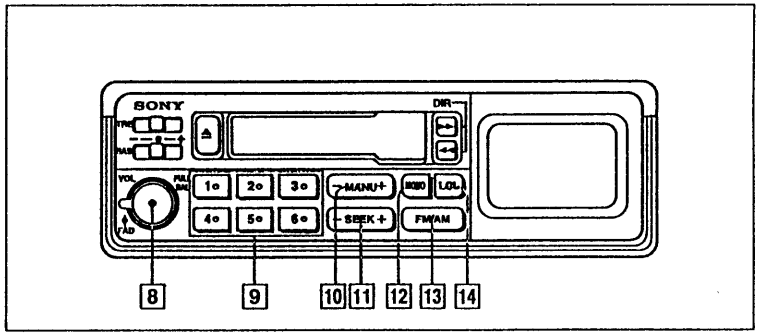
Location and Function of Controls





Refer to the pages in ● for details.

[1] **FAD (fader) control**
Turn clockwise to decrease the volume of the rear speakers or counterclockwise to decrease the volume of the front speakers.

[2] **TRE (treble) control**

[3] **BAS (bass) control**

[4] **≜ (eject) button**
Press to stop the tape and take out the cassette.

[5] **Cassette insertion door**

[6] **◄◄/►► (fast winding)/DIR (tape transport direction change) buttons** ❼
During playback, depress ◄◄ or ►► for fast winding, or press both ◄◄ and ►► simultaneously to listen to the other side of the cassette.

[7] **Display window**

[8] **Power on • off switch/VOL (volume) control/PULL BAL (balance) control**

Power on • off switch	Turn clockwise to turn on the unit and counterclockwise to turn off.
VOL control	Turn clockwise to increase the volume and counterclockwise to decrease.
PULL BAL control	While pulling the control, turn to adjust the balance of the left and right speakers.

[9] **Preset buttons** ⓫

[10] **MANU (manual) button** ⓬
Press to tune in the desired stations manually.

[11] **SEEK button** ❽
Press – side to search for lower frequencies and + side for higher frequencies.

[12] **MONO (monaural) button** ❾
Press to reduce noise during reception of a weak FM stereo program. To listen in stereo, press it again.

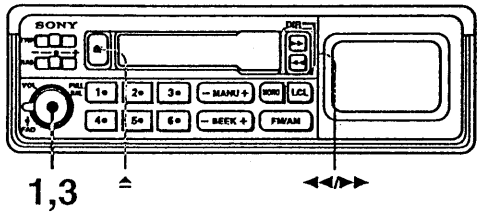
[13] **FM/AM band select button** ❽
Press to select the desired band, FMI, FMII, FMIII, or AM.

[14] **LCL (local seek) button** ❾

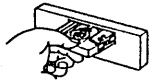
This section is extracted from instruction manual.

Cassette deck operation

Tape Playback



1 Turn clockwise to turn the power on.

2  Insert a cassette.
Playback starts automatically.

3 Adjust the volume.

Other Operations

To listen to the other side of the cassette

Press ▶▶ and ◀◀ (simultaneously).

To wind the tape rapidly

Direction indicator	To advance	To rewind
▶	Depress ▶▶.	Depress ◀◀.
◀	Depress ◀◀.	Depress ▶▶.

To resume playback, press ▶▶ or ◀◀ lightly, which is not depressed.

To stop playback and listen to the radio

Press ⏏. The unit enters the radio mode.

To stop playback and turn off the unit

Press ⏏ and then turn counterclockwise until it clicks.

Before turning off the unit:
Be sure to eject the tape to avoid tape damage.

Side of the cassette being played back or fast-wound

Indicator	Side
▶	The side facing upward
◀	The side facing downward

To control the balance of the front and rear speakers in a 4 speaker system

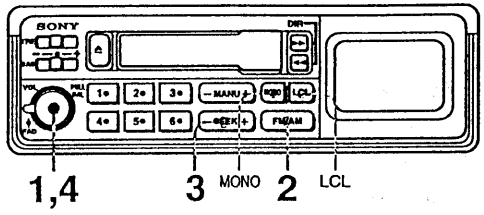
Use the FAD control.
Turn clockwise to decrease the volume of the rear speakers.
Turn counterclockwise to decrease the volume of the front speakers.

To control the balance of the right and left speakers

Use the PULL BAL control.
Pull out the control and turn clockwise to decrease the volume of the left speaker(s), and turn counterclockwise to decrease the volume of the right speaker(s).

Radio reception

Automatic Tuning



1 Turn clockwise to turn the power on.

2 FM/AM — Press to select the desired band, FM I, FM II, FM III, or AM.

3 – SEEK + — Press to start scanning.

–: For lower frequency stations

+: For higher frequency stations

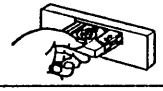
The scanning automatically stops when a station is tuned in.

Repeat this step until the desired station is tuned in.

4 Adjust the volume.

Other Operations

To stop the radio and start tape playback



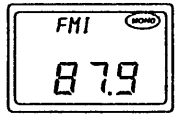
To stop the radio and turn off the unit

Turn counterclockwise until it clicks.

When the FM stereo program is too weak and noisy

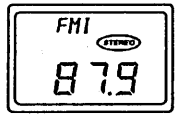
Press MONO

The noise will be reduced. The sound will be monaural instead.



When an FM stereo program of sufficient signal strength is tuned in

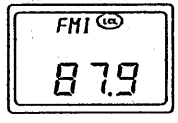
The program is automatically received in stereo.



When there are too many stations and the scanning stops too frequently during automatic tuning

Press LCL

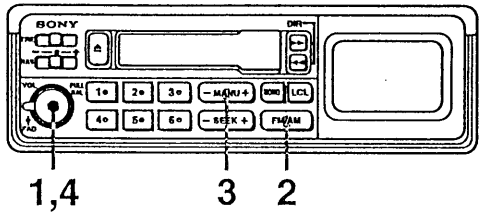
Only the stations with relatively strong signals can be tuned in.



Radio reception

Manual Tuning

Use this method when you know the frequency of the desired station, or when the desired station is too weak to be tuned in by the automatic tuning.



1

Turn clockwise to turn the power on.

2 FM/AM

Press to select the desired band, FM I, FM II, FM III, or AM.

3 −MANU+

Press to select the desired station.

−: For lower frequency stations

+: For higher frequency stations

To change the frequency rapidly, keep the button pressed.

4

Adjust the volume.

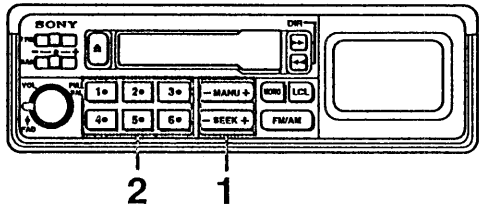
Warning
While driving, keep your eyes on the road and use the automatic tuning or memory preset tuning!

Radio reception

Memory Preset Tuning

To Memorize the Stations

The unit can memorize up to 6 stations on the AM band and 18 stations on the FM band (6 stations each on FM I, FM II and FM III).



1 − SEEK +

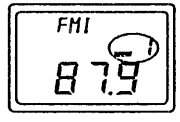
or

−MANU+

Tune in a desired station using the automatic or manual tuning.

2 1o — 6o

Keep the desired preset button pressed for more than two seconds until the "MEM" indication will come on.



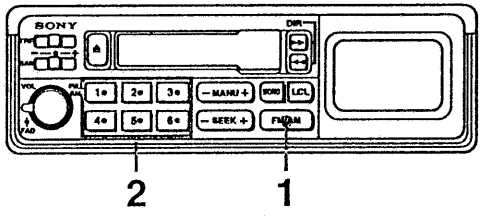
The station is memorized.

Repeat these steps for each station.

Important
Every preset button has only one memory for a band. The previously memorized station will be erased when you enter a new station of the same band on the same preset button.

Memory Preset Tuning

To Receive the Preset Station



1	FM/AM	Press to select the desired band.
2	1 — 6	Press the desired preset button lightly.

Note

If you keep pressing the preset button for more than two seconds, the currently received station will be memorized. To receive the previously memorized station, press the preset button lightly.

Maintenance

Fuse Replacement

If the fuse blows, check the power connection and replace the fuse. If the fuse blows again after replacement, there may be an internal malfunction. In this case, consult your nearest Sony dealer.

Warning

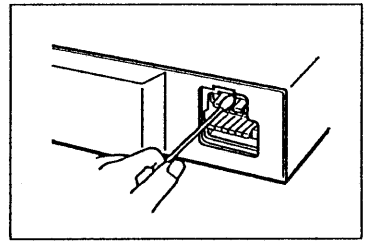
Use the specified amperage fuse for each lead. Use of a higher amperage fuse may cause serious damage.

Cleaning the Head and the Tape Path

Prolonged use may contaminate the tape head and the tape path. Contamination causes sound drop-outs in playback. Clean the tape head and the tape path every two weeks to enjoy optimum hi-fi stereo sound. Use a commercially available cleaning cassette.

Cleaning the Connector

To keep the best possible sound quality, clean the metallic part of the connector at the rear of the unit periodically using a commercially available head cleaning fluid or rubbing alcohol and a cotton swab.



Installation/Instalación/安装 التركيب

Precautions

- Choose the mounting location carefully so that the unit will not interfere with the normal driving functions of the driver.
- Avoid installing the unit where it should be subject to high temperatures, such as from direct sunlight or hot air from the heater, or where it would be subject to dust, dirt or excessive vibration.
- Use only the supplied mounting hardware for a safe and secure installation.

Precauciones

- Elija cuidadosamente el lugar de montaje de forma que la unidad no interfiera las funciones normales de conducción.
- Evite instalar la unidad donde pueda quedar sometida a altas temperaturas, como a la luz solar directa o al aire caliente de calefacción, o a polvo, suciedad, o vibraciones excesivas.
- Para realizar una instalación segura y firme, emplee solamente la ferretería de montaje suministrada.

安装前须知事项

- 安装位置应选在不妨害驾驶者操作之处。
- 不可安装在易受直射阳光照射、暖气排出口等高温之处，或易霉受灰尘、污秽或震动太大的地方。
- 安装时为保安全起见，请使用附属的安装用工具。

تنبيهات إحتياطية

- قم باختيار موضع التركيب بعناية بحيث لا تتداخل الوحدة مع وظائف القيادة العادية للسائق.
- تجنب تركيب الوحدة في مكان تكون فيه معرضة لدرجات الحرارة المرتفعة، مثل الحرارة من ضوء الشمس المباشر أو الهواء الساخن من الدفاية، أو حيث تكون معرضة للغبار أو الاوساخ أو الاهتزاز الزائد.
- لا تستعمل لوازم تركيب غير تلك المجهزة مع الوحدة وذلك لضمان سلامة وإحكام التركيب.

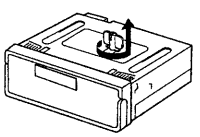
To Install the Unit in the Dashboard
Para instalar de la unidad en el salpicadero
要安装在汽车仪表板时
لتركيب الوحدة في لوحة العدادات

1 Remove the transit lock by turning it 90°.

Quite la llave de transporte girándola 90°.

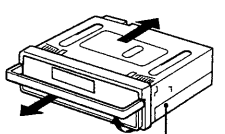
把固定锁旋转90度，就能取出。

١ إنزع قفل النقل بادارته ٩٠ درجة.



2 Remove the bracket.
Quite el soporte.
取下机套。

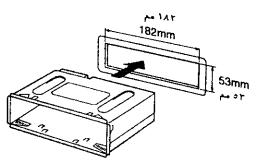
٢ إنزع قاعدة التركيب.



Bracket
Soporte
机套
قاعدة التركيب

3 Install the bracket in the dashboard.
Instale el soporte en el salpicadero.
把防护套安装在仪表板上。

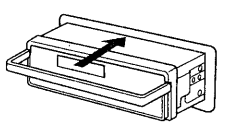
٣ قم بتركيب قاعدة التركيب في لوحة العدادات.



Bend these claws, if necessary.
Doble estas uñas si es necesario.
如有必要，折弯这些爪片。
إثن هذه المخالب اذا استدعى الامر.

4 Secure the unit.
Asegure la unidad.
向内推入直到牢固装入为止。

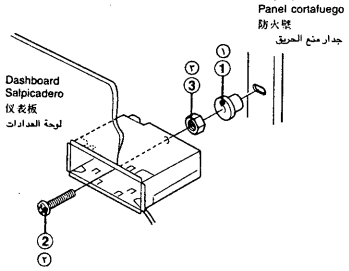
٤ قم بتثبيت الوحدة جيدا.



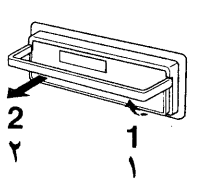
Push in the unit until it is locked firmly.
Empuje la unidad hasta que quede firmemente enganchada.
把两用机装进机套里。
إدفع الوحدة الى ان تصدر عنها طقة.

To Support the Unit
Para soportar la unidad
要固定于机板上时
لتثبيت الوحدة

Example
Ejemplo
例子
مثال



To Remove the Unit
Para extraer la unidad
要取下时
لنزع الوحدة



This prevents your car audio set from being stolen.
De esta forma evitará que le roben la unidad.
因装卸自由，故可随身携出，以防被盗。
هذا يحول دون سرقة الجهاز السمعي لسيارتك.

Connections/Conexiones/连接

Caution

- This unit is designed for negative ground 12 V DC operation only.
- Before making connections, disconnect the ground terminal of the car battery to avoid short circuits.
- Connect the **red** power input lead only after all other leads are connected. And be sure to connect it to the positive 12 V power terminal. It will be energized when the ignition key is set to the accessory position.
- **Run all ground wires to a common ground point.**

Precauciones

- Esta unidad ha sido diseñada para funcionar solamente con 12 V CC y negativo a masa.
- Antes de realizar las conexiones, desconecte el terminal de masa de la batería del automóvil a fin de evitar cortocircuitos.
- Conecte el conductor de entrada de alimentación **rojo** solamente después de haber conectado todos los demás. Cerciórese de conectarlo a un terminal de alimentación de 12 V positivo que se energice al poner la llave de encendido en la posición para accesorios.
- **Conecte todos los terminales de puesta a masa a un punto común.**

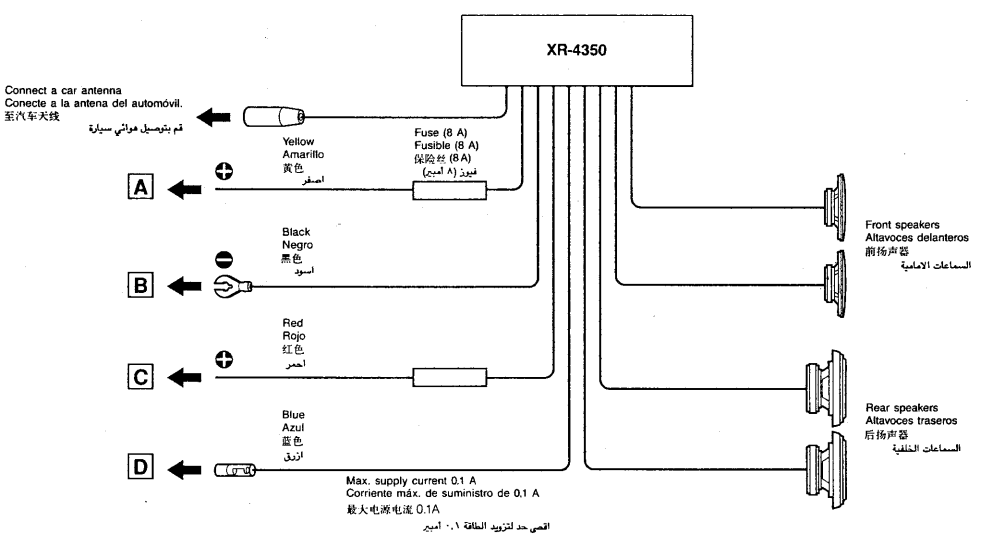
注意

- 本机只可使用负极接地12伏特直流电。
- 连接以前，请先拔下汽车电池接地端以防短路。
- 所有电线连接完毕以后才可连接**红色**电源线。
  电源线必须连接到正极12伏特直流电端子才行。
  又，当引擎点火插口被转在"accessory"位置时，汽车将处于点火状态，敬请注意。
- **所有的接地线请都接至一共同接地点。**

تنبيه

- هذه الوحدة مصممة للتشغيل على التيار المباشر ١٢ فولت بتأريض سالب فقط.
- قبل عمل التوصيلات إفصل طرف توصيل الارضي لبطارية السيارة لتفادي حدوث دائرة قصير.
- لا تعمد الى توصيل سلك دخل التيار الاحمر الا بعد الانتهاء من توصيل جميع الاسلاك الاخرى. وتأكد من توصيله بطرف توصيل القدرة ١٢ فولت الموجب. سيتم تشغيله عند تهيئة مفتاح إشعال المحرك في الوضع الثانوي.
- قم بتوصيل جميع اسلاك الارضي بنقطة تأريض مشتركة.

Connection Diagram
Diagrama de conexión
连接方块图
مخطط التوصيل



- A : To the +12 V power terminal which is energized at all times
- B : To a metal point of the car
- C : To the +12 V power terminal which is energized with the ignition key in the accessory position
- D : To the power antenna relay control box

- A : a un terminal de +12 V que esté permanentemente energizado.
- B : a un punto metálico del automóvil
- C : a un terminal de alimentación de +12 V que se energice al poner la llave de encendido en la posición para accesorios.
- D : a la caja de control de relés de la antena motorizada

- A : 至 +12 伏特电源端子，该端子随时都处于点火状态。
- B : 至汽车金属端。
- C : 至 +12 伏特电源端子，该端子当点火引擎插口被转在"accessory"位置时将处于点火状态。
- D : 至功率天线延迟控制箱。

- A : الى طرف توصيل التيار 12V + الذي يعمل بصورة دائمة.
- B : الى نقطة معدنية في السيارة.
- C : الى طرف توصيل التيار 12V + الذي يعمل عند تحويل مفتاح إشعال محرك السيارة الى الوضع الثانوي.
- D : الى صندوق التحكم في مرحل الهوائي الآلي.

Cord color
Red: Power input lead
Yellow: Power input lead
Blue: Power antenna relay control
Black: Ground wire

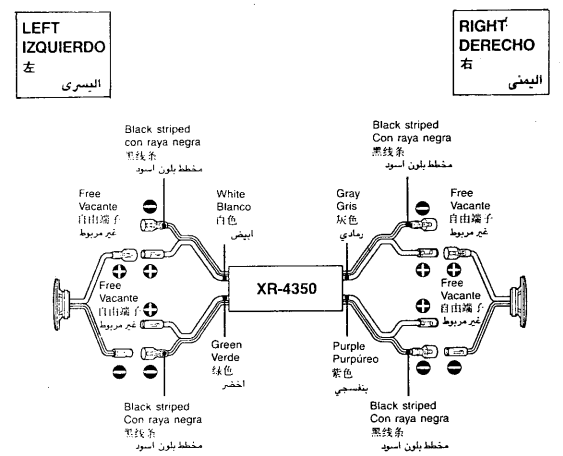
Colores de los conductores
Rojo: Conductor de entrada de alimentación
Amarillo: Conductor de entrada de alimentación
Azul: Conductor de control de relés de la antena motorizada
Negro: Conductor de puesta a masa (carrocería)

电线颜色
红色：功率输入导线
黄色：功率输入导线
蓝色：功率天线延迟控制导线
黑色：接地线

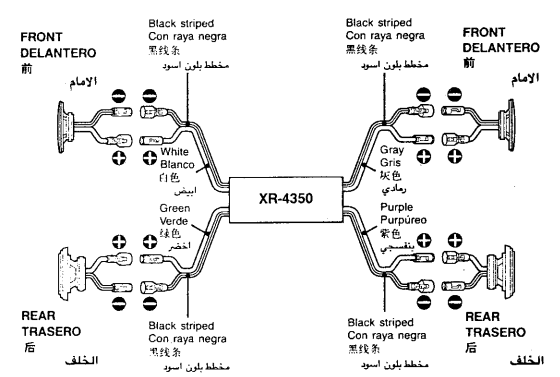
الوان الاسلاك
احمر: سلك دخل التيار
اصفر: سلك دخل التيار
ازرق: للتحكم في ترحيل الهوائي الآلي
اسود: سلك الارضي

Speaker Connection
Conexión de los altavoces
扬声器之连接
توصيل سماعات التكبير

2-speaker connection
Conexión de 2 altavoces
连接 2 个扬声器时
توصيل سماعتي تكبير



4-speaker connection
Conexión de 4 altavoces
连接 4 个扬声器时
توصيل ٤ سماعات تكبير



Notes on speaker connection

- Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities. Otherwise, the speakers may be damaged.
- Do not connect the terminals of the speaker system to the car chassis, and do not connect the terminals of the right speaker with those of the left speaker.

Notas sobre la conexión de altavoces

- Emplee altavoces con una impedancia de 4 a 8 ohmios, y con la potencia admisible adecuada. De lo contrario, los altavoces podrían dañarse.
- No conecte los terminales de los altavoces a la carrocería del automóvil, ni conecte los terminales del altavoz derecho a los del izquierdo.

扬声器连接时之注意事项

- 请使用 4 至 8 欧姆阻抗，且操作电容适宜的扬声器，否则扬声器容易受损毁。
- 不可把扬声器端子连接到汽车机壳，也不可把右扬声器端子和左扬声器端子相连接。

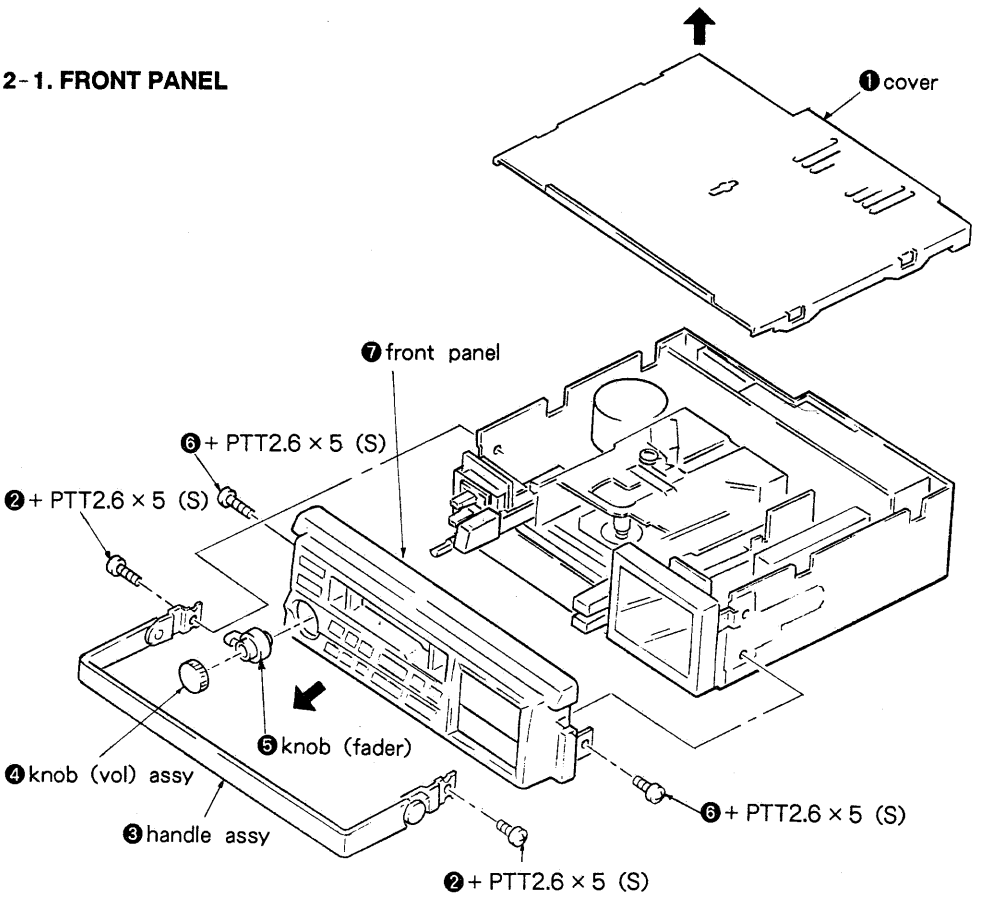
ملاحظات حول توصيل سماعات التكبير

- استعمل سماعات تكبير ذات معاوقة من ٤ الى ٨ اوم وذات سعة كافية لتحمل القدرات. اذا لم تكن كذلك فقد تصاب السماعات باضرار.
- لا تعمد الى توصيل اطراف توصيل نظام سماعات التكبير بهيكل السيارة السفلي و لا تعمد الى توصيل اطراف توصيل السماعة اليمنى بتلك الخاصة بالسماعة اليسرى.

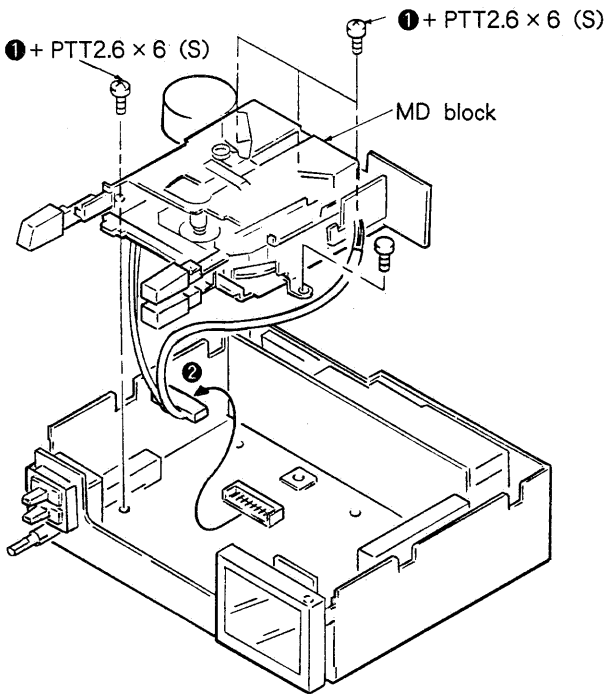
SECTION 2
DISASSEMBLY

Note : Follow the disassembly procedure in the numerical order given.

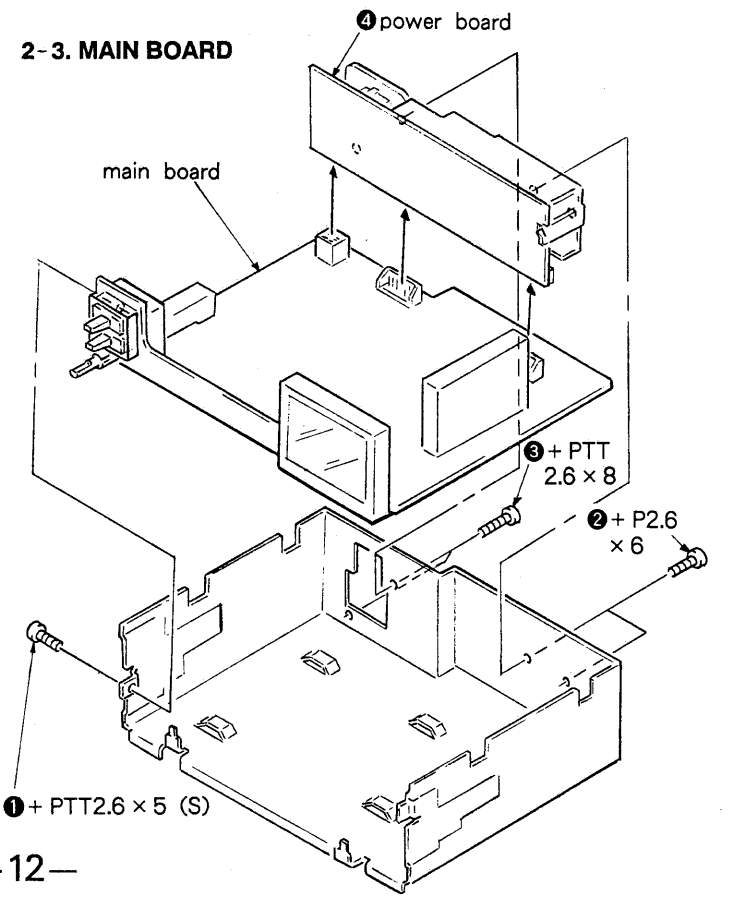
2-1. FRONT PANEL



2-2. MD BLOCK



2-3. MAIN BOARD



SECTION 3
ADJUSTMENTS

3-1. MECHANICAL ADJUSTMENT

No mechanical adjustments applied to this unit.

● **Torque Measurement**

Mode	Torque Meter	Torque
FWD	CQ-102C	40 to 75 g · cm (0.56 to 1.04 oz · inch)
REV	CQ-102RB	
Back tension	CQ-102B	1 to 5 g · cm (0.02 to 0.07 oz · inch)
FF	CQ-201B	45 to 150 g · cm (0.62 to 2.08 oz · inch)
REW		

3-2. ELECTRICAL ADJUSTMENTS

Note : The adjustment should be performed in the order given in this service manual.
The adjustments should be performed for both L-CH and R-CH.

- Power-supply voltage is +14.4V DC as per Ad Hoc recommendation.
- Switches and controls should be set as follows unless otherwise specified.

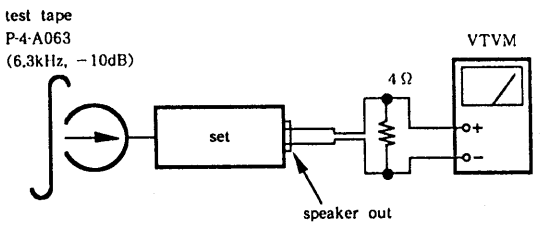
  PUSH RADIO switch : RADIO
  PULL BALANCE control : center click

TAPE SECTION

Playback Head Azimuth Adjustment

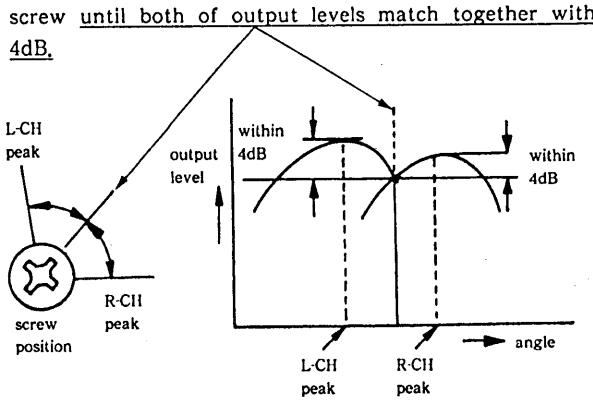
Procedure :

1. Mode : playback

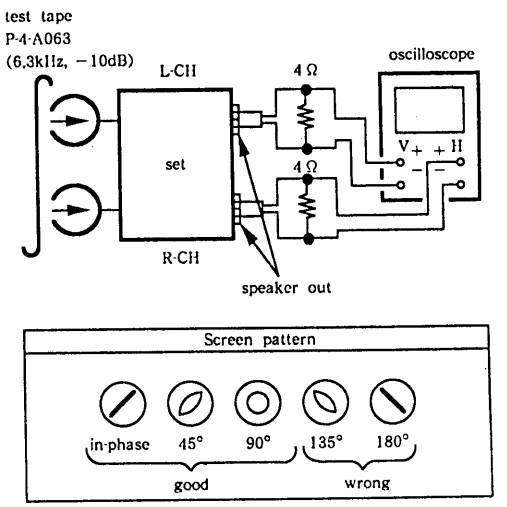


Adjust for forward (▶) direction and reverse (◀) direction.

2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 4dB.

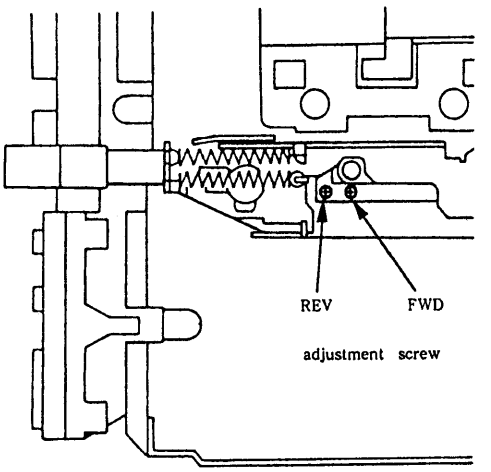


3. Phase Check
Confirm that phase difference between L-channel and R-channel is within 90°



4. Repeat the above adjustment for reverse playback mode.
5. After the adjustment, lock the screw with locking compound.

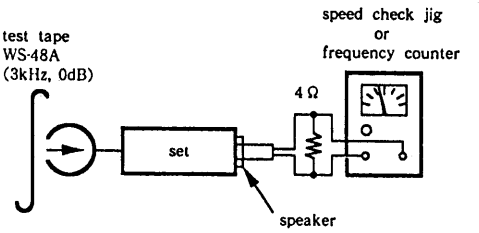
Adjustment Location :



Capstan Motor Tape Speed Adjustment

Procedure :

1. Put the set into the FWD PB mode.

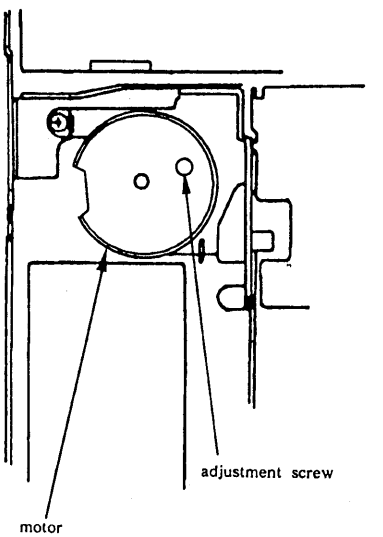


Specification : Constant speed

Speed check jig	Frequency counter
-1.5 to +2.5 %	2,940 to 3,090 Hz

Adjust so that the frequency difference between the FWD and REV modes is within 1.5%.

Adjustment Location :

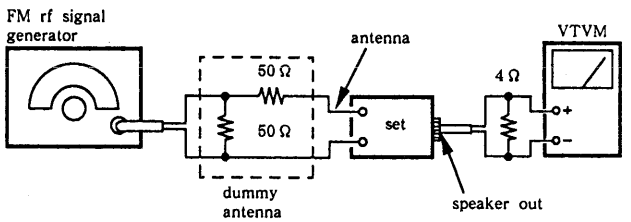


FM SECTION

FM Stereo Separation Adjustment ( ) : XR-4357

Setting :

BAND : FM Stereo
Frequency : 98.0MHz (97.9MHz)



Carrier frequency : 98.0MHz (97.9MHz)
Output level : 70dB (3.15mV)
Modulation : 1kHz
main : 33.75kHz dev.
sub : 33.75kHz dev.
19kHz pilot : 7.5kHz dev.

Procedure :

1. Set the output level of a signal generator to 70dB and then adjust the output to 0dB with the volume control.
2. Adjust RV1 for a best stereo separation.

FM stereo signal generator output channel	VTVM connection	VTVM reading (dB)
L-CH	L-CH	Ⓐ
R-CH	L-CH	Ⓑ Adjust RV1 for minimum reading.
R-CH	R-CH	Ⓒ
L-CH	R-CH	Ⓓ Adjust RV1 for minimum reading.

L-CH stereo separation : Ⓐ - Ⓑ
R-CH stereo separation : Ⓒ - Ⓓ
The separations of both channels should be equal.

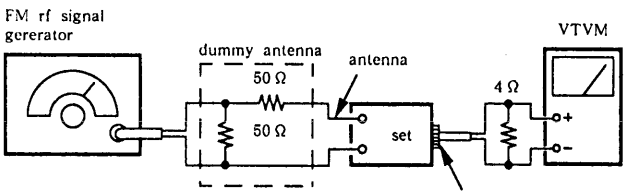
3. Adjust so that separation is maximized.
(separation > 27dB)

Adjustment Location : main board (See page 17)

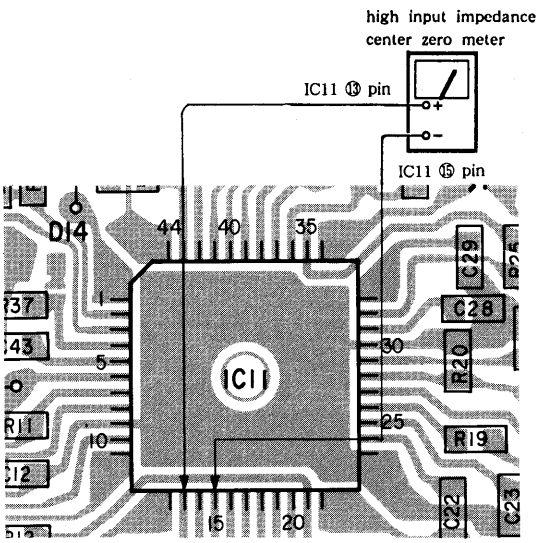
FM f center Adjustment ( ) : XR-4357

Setting :

BAND : FM MONO

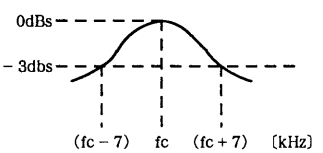


Carrier frequency : 98.0MHz (98.1MHz)
Output level : 60dB (1mV)
Modulation : 1kHz, 75kHz deviation (100%)



Procedure :

1. Slowly adjust the core of T11 to obtain a zero (0) V reading on high impedance center zero meter.
2. Output an f center 60dB signal output from FM SG so that SP out terminal is 0dB.
3. Change the FM SG frequency and check the deviation of the frequency when the SP out terminal drops 3dB.



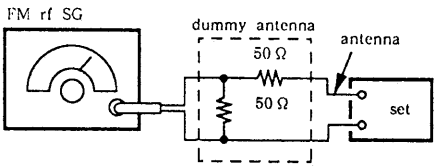
4. Readjust T11 when the deviation of the frequency does not satisfy the standard.

Adjustment Location : Main board (See page 17)

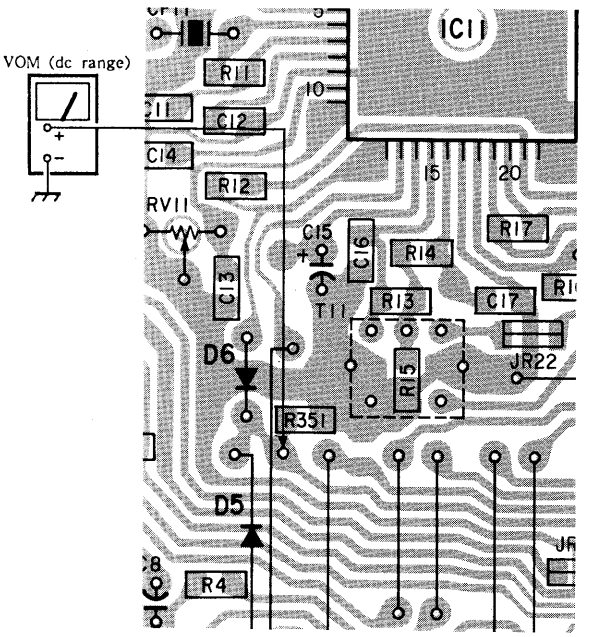
FM Auto-scan Stop Level Adjustment ( ) : XR-4357

Setting :

Band switch : FM MONO
Frequency : 98.0MHz (97.9MHz)



Carrier frequency : 98.0MHz (97.9MHz)
Modulation : 1kHz, 75kHz deviation (100%)
Output level : 25dB (18 μ V)



Procedure :

1. Adjust VR11 at the point where the VOM reading changes from low to high.(arround 0.6V)
2. Confirm that the set stops auto-scanning with FM RF SSG output level set at 25 ± 3dB.

Adjustment Location : main board (See page 17)

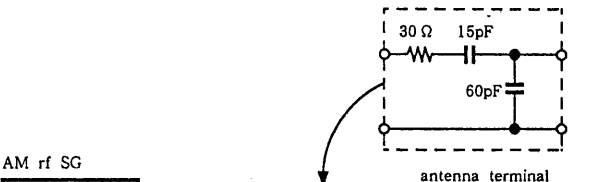
AM SECTION

AM Auto-scan Stop Level Adjustment ( ) : XR-4357

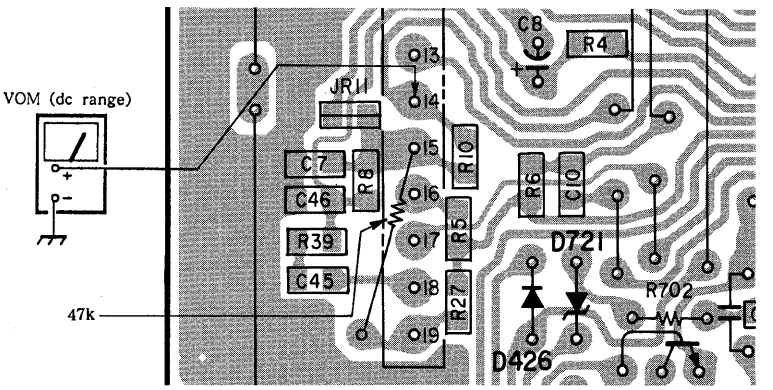
Note : Be sure to perform this adjustment after "FM Auto-scan Stop Adjustment".

Setting :

BAND : MW
Frequency : 999kHz (1,000kHz)



Carrier frequency : 999kHz (1,000kHz)
Output level : 30dB
Modulation : no modulation



Procedure :

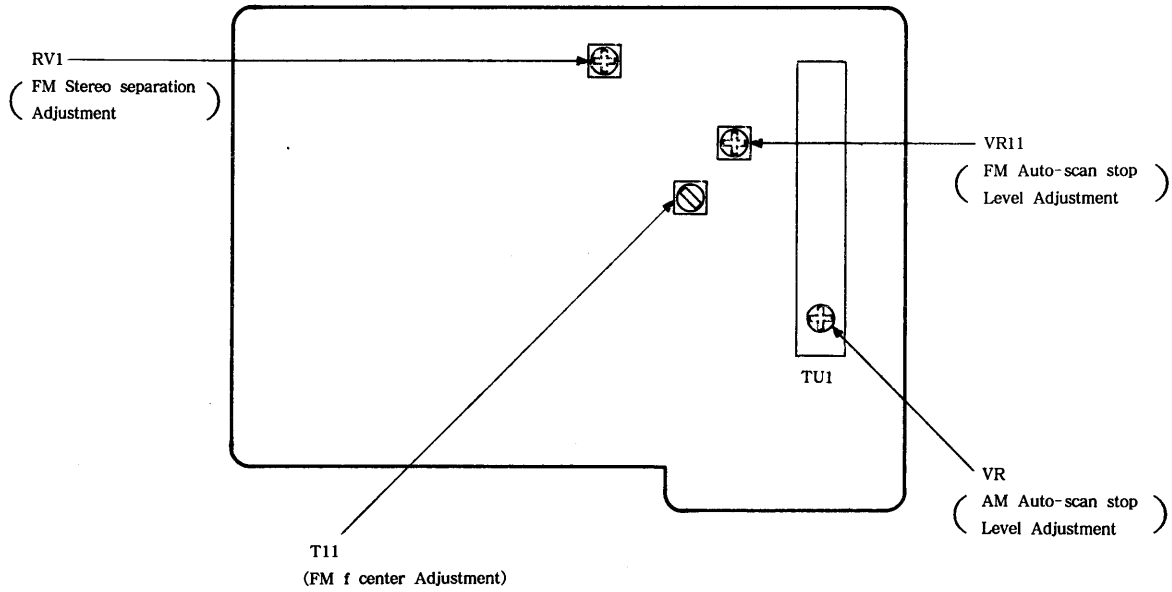
1. Adjust TU1 (VR) at the point where the VOM reading changes from low to high. (arround 0.6V)
2. Confirm that the set stops auto-scanning with AM RF SG output level set at 30 ± 3dB.
3. After the adjustment, remove the resistor of 27KΩ.

Note : AM mute signal OFF. (Add 5V through 47KΩ to ⑲ pin of TU1)

Adjustment Location : main board (TU1) (See page 17)

ADJUSTMENT LOCATION

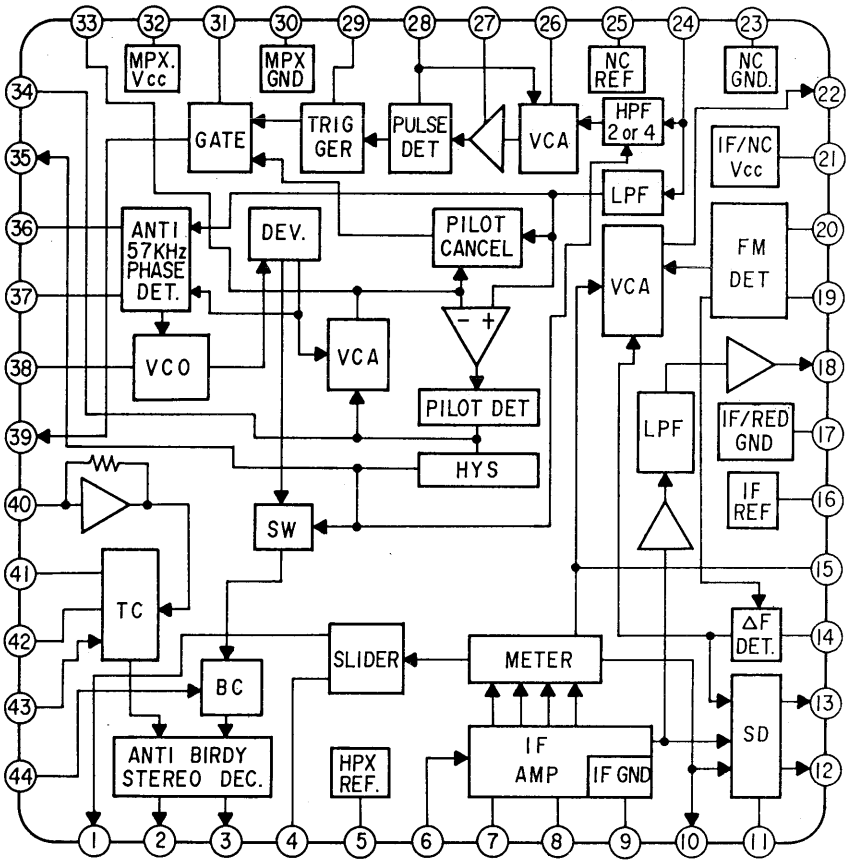
【MAIN BOARD】 (Component side)



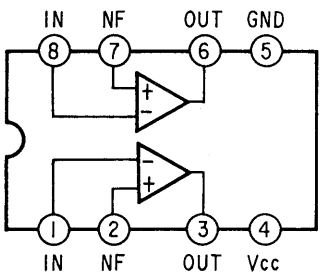
SECTION 4
DIAGRAMS

4-1. IC BLOCK DIAGRAMS

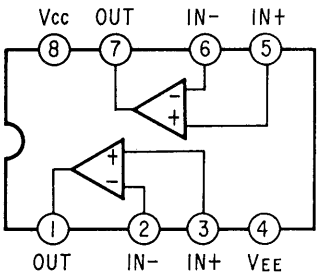
• IC11 TA8172AF



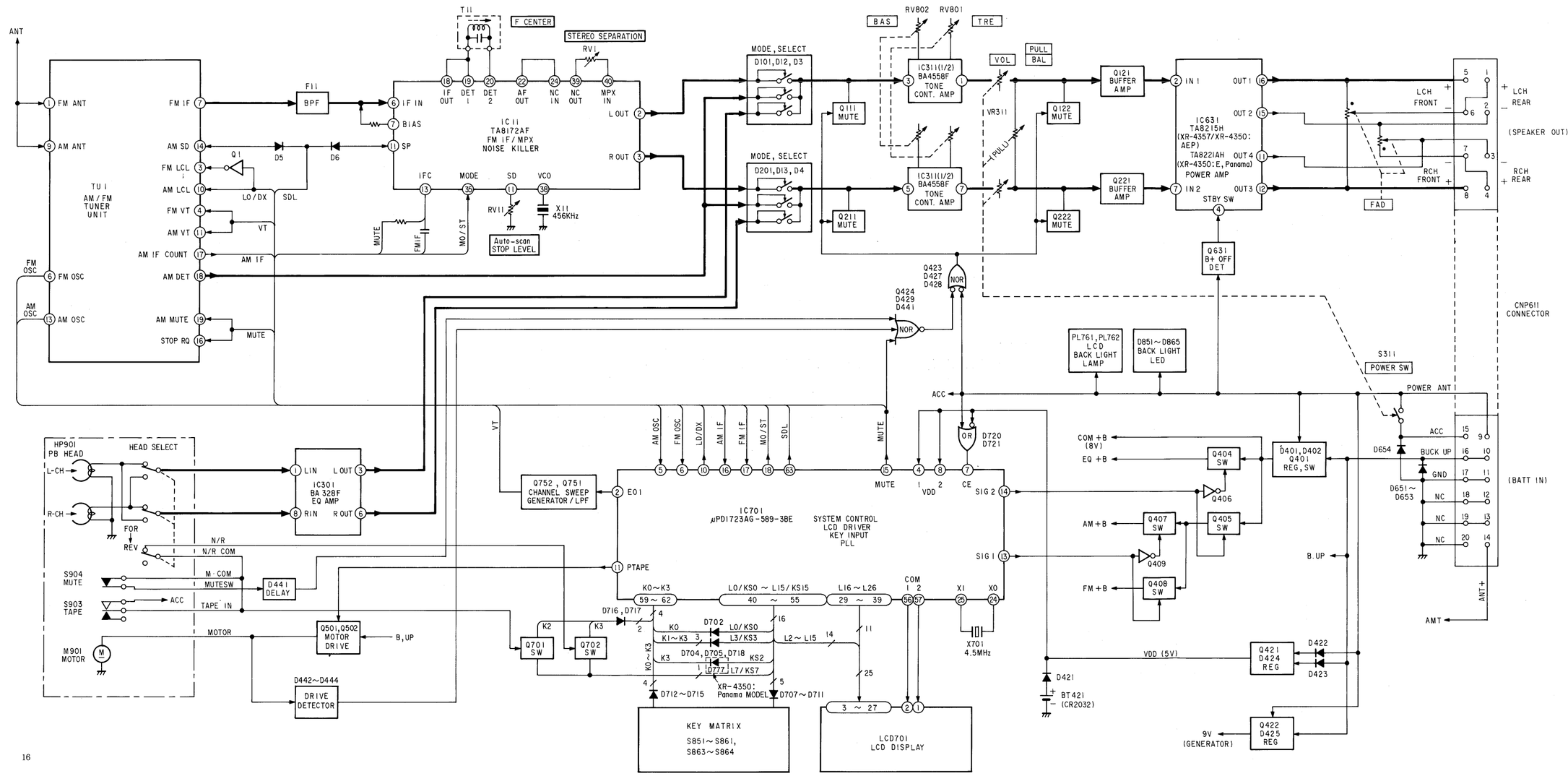
• IC301 BA328F



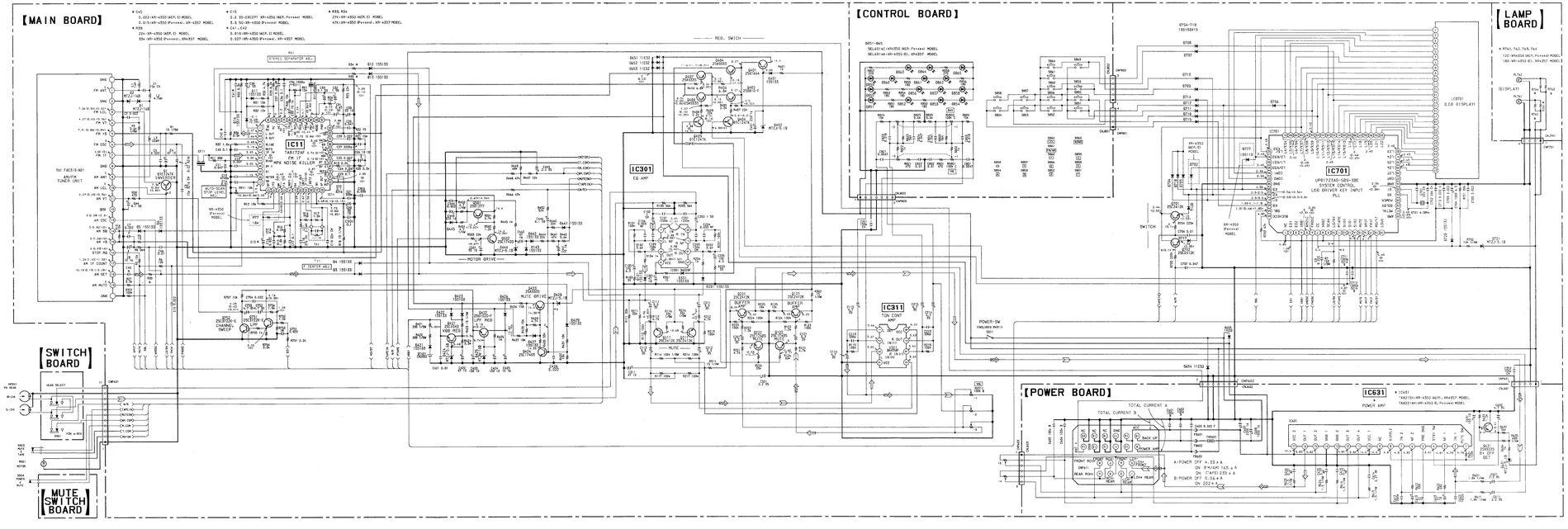
• IC311 BA4558F



4-2. BLOCK DIAGRAM



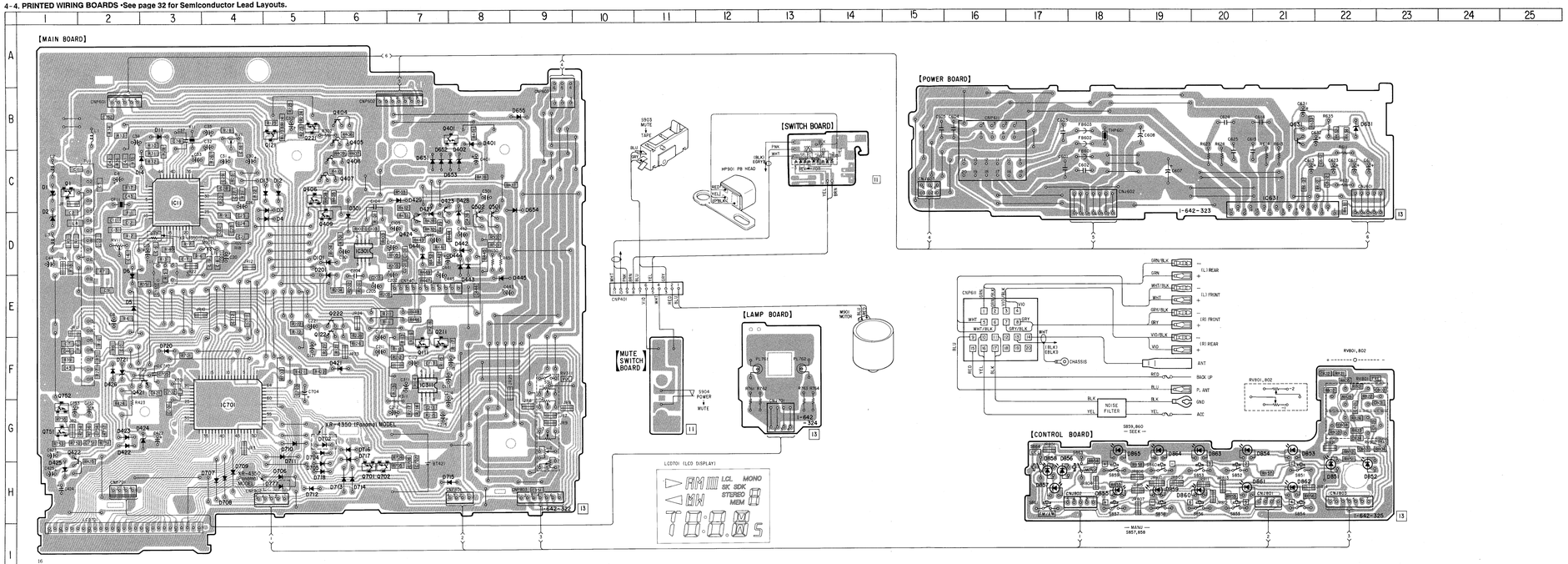
4-3. SCHEMATIC DIAGRAM •See page 18 for IC Block Diagrams.



Note on Schematic Diagram :

- All capacitors are in μF unless otherwise noted. pF: μμF
  50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.
- ⊖ ═══ : B+ Line.
- ⊖ ▭ : adjustment for repair.
- ⊖ Power voltage is dc 14.4 V and fed with regulated dc power supply from external power voltage jack.
  no mark : FM
  ( ) : AM
  < > : PB
- ⊖ Voltages are taken with a VOM (input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- ⊖ Signal path.
  ⇨ : FM ⇦ : PB
  ⇨ : AM

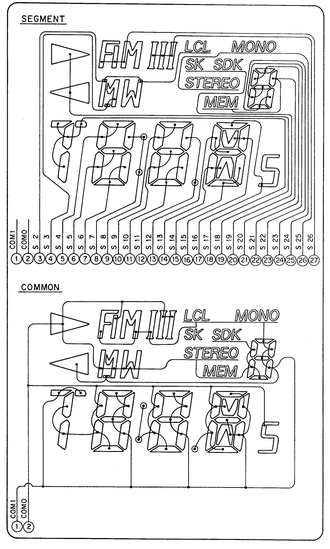
4-4. PRINTED WIRING BOARDS •See page 32 for Semiconductor Lead Layouts.



• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D1	C-1	D720	F-3
D2	D-1	D721	F-2
D3	D-5	D777	H-5
D4	D-5	D851	H-22
D5	E-2	D852	H-22
D6	E-2	D853	H-21
D11	B-3	D854	H-21
D12	E-5	D855	H-18
D13	C-5	D856	H-17
D14	C-2	D857	H-17
D101	D-2	D858	H-17
D201	E-6	D859	H-19
D301	B-8	D860	H-20
D401	B-8	D861	H-21
D402	C-8	D862	H-21
D421	F-6	D863	H-20
D422	G-2	D864	H-19
D423	G-2	D865	H-18
D424	G-2		
D425	H-1	IC11	C-3
D426	F-2	IC301	D-6
D427	D-7	IC311	F-7
D428	D-8	IC631	C-21
D429	C-7	IC701	G-4
D441	D-7		
D442	D-8	Q1	C-1
D443	D-8	Q111	F-7
D444	D-8	Q121	B-5
D445	E-8	Q122	E-6
D631	B-22	Q211	F-7
D651	C-7	Q221	B-5
D652	C-7	Q222	E-6
D653	C-7	Q401	B-8
D654	C-7	Q404	B-6
D655	B-7	Q405	B-6
D702	G-5	Q406	C-5
D704	G-5	Q407	C-6
D705	G-5	Q408	C-6
D706	G-5	Q409	D-5
D707	H-4	Q421	F-2
D708	H-4	Q422	H-1
D709	H-4	Q423	D-7
D710	G-5	Q424	D-7
D711	G-5	Q501	B-8
D712	H-5	Q502	B-8
D713	H-6	Q631	B-21
D714	H-6	Q701	H-6
D715	H-7	Q702	H-6
D716	G-6	Q751	G-1
D717	G-6	Q752	G-1
D718	H-5		

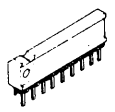
• LCD701 (LCD UNIT)



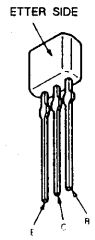
Note on Mounting Diagram :
● ○—— : Parts extracted from the component side.

4-5. SEMICONDUCTOR LEAD LAYOUT

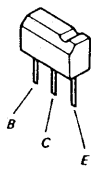
TA8215H



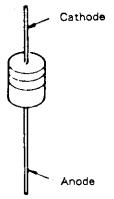
2SA1150
2SA1175-HFE
2SC2785-HFE
2SD1021



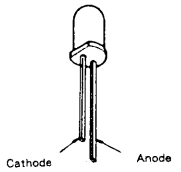
2SC2673



MTZN-10B
RD18ESB2
RD5.1ESB2
RD5.6ESB2
RD9.1ESB2
1SS119
11ES2



SEL6514C
SEL6914A



4-6. IC DESCRIPTION

• IC701 μ PD1723AG-589-3BE (SYSTEM CONTROL)

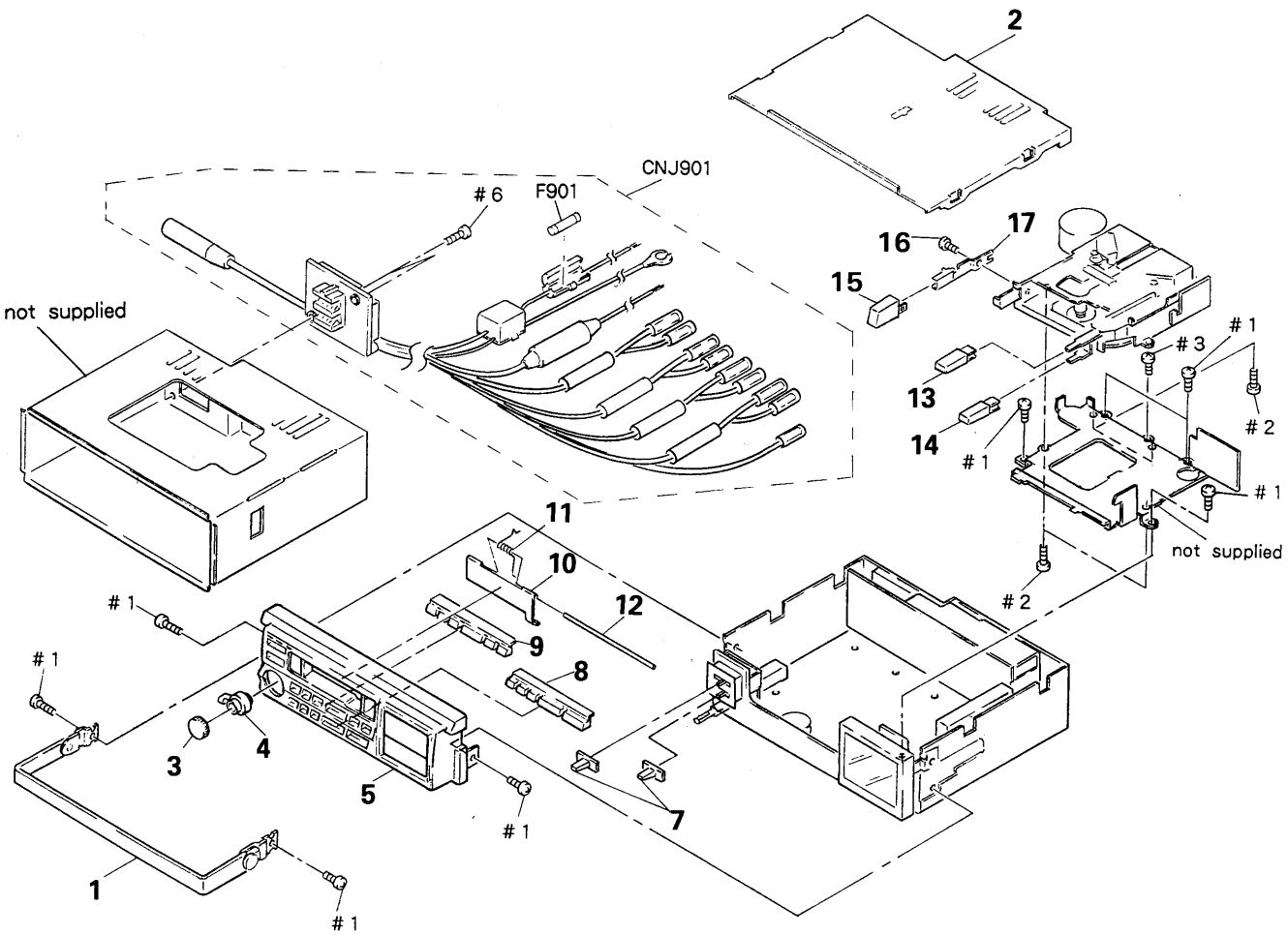
Pin No.	Pin Name	I/O	Function
1	NC		Not connected.
2	E01	O	PLL error output terminal
3	E02		
4	VDD1	I	Device power supply terminal
8	VDD2		
5	VCOL/AMOSC	I	AM section oscillation input terminal
6	VCOH/FMOSC	I	FM section oscillation input terminal
7	CE	I	Device selection signal input terminal
9	PD1/SCAN	O	High outputs while seeking when TUNER is ON. (Used for AGC CUT of AM and ON/OFF of IF count output.)
10	PD2/LOCAL	O	High outputs in LOCAL ON. Low when TUNER is OFF. (See the initial setting SW LOCAL SEEK.)
11	PD3/PTAPE	O	Outputs for the power supply of TAPE mechanism deck. PTAPE is set to LOW when TAPE is played back in the SDK mode and DKON is set.
12	PC0/SIG0	O	Signal (source) selection output SIG0 / SIG1 / SIG2 / 0 0 0 AUX 1 0 0 AUX (SDK ON) 0 1 0 TAPE 1 1 0 TAPE (SDK or ATA ON) 0 0 1 LW 1 0 1 MW (AM) 0 1 1 FM 1 1 1 FM, SDK ON * * The DK ON (SDK ON) state is included.
13	PC1/SIG1		
14	PC2/SIG2		
15	PC3/MUTE	O	MUTE output
16	PA0/AMIF	I	IF count input of AM (LW and MW)
17	PA1/FMIF	I	IF count input of FM
18	PA2/MONO.ST	O/I	Forced monaural output and STEREO input. Low outputs in case other than which forced monaural ON (when FM is received) or FM is being received. Input mode in forced monaural OFF (when FM is received). (STEREO display in low input)
19	PA3/LOUD	O	High outputs when the power is ON (except for ALL OFF) and LOUD is ON.
20	PB0/AMS	O	Low outputs when TAPE is ON and AMS is ON. High outputs when TUNER and AUX is ON.
21	PB1/METAL	O	High outputs when TAPE and METAL are ON.
22	PB2/DOLBY	O	Low outputs when TAPE and DOLBY are ON. (High outputs when DKON (SDK ON) is set while ATA is operating, however.) High outputs when TUNER and AUX are ON.
23	PB3/POWER	O	High outputs when TUNER, TAPE or AUX is ON.
24	XO	I	Crystal oscillation connection terminal
25	XI		
26	GND		Device ground terminal
58	CGP/BEEP		
27	(COLOR)	O	BEEP and COLOR are selected with diode switch. COLORBEEP ON COLOR is switched. CGP (PG # 2 through mode) High outputs when COLOR is ON. COLORBEEP OFF BEEP is switched. Normal : 2.25 kHz, 40 mSec Pressed (two seconds) : 750 kHz, 40 mSec 2.25 kHz, 40 mSec two times (interval : 160 mSec)
28 – 39	LCD27 – LCD16	O	Segment signal output terminal for LCD panel
40 – 55	LCD15/KS15 – LCD0/KS0	O	Used for segment signal output terminal for LCD panel and key source signal terminal.
56	COM1	O	Common signal output terminal for LCD panel
57	COM2		
59 – 62	K3 – K0	I	Key return signal input terminal
63	SD	I	Electrolytic input terminal. Used for SD detection. It is detected that there is SD when VDD is 1.211 V or more.
64	INT	I	CE and BUCHECK OFF. CLOCK STOP mode when there are no clock. (It can be set to the CLOCK STOP mode even if only CE is OFF.) Clock display (clock adjustment key is active) or clock up when there is a clock. MUTE outputs always when only BUCHCK is OFF.

SECTION 5
EXPLODED VIEWS

NOTE:

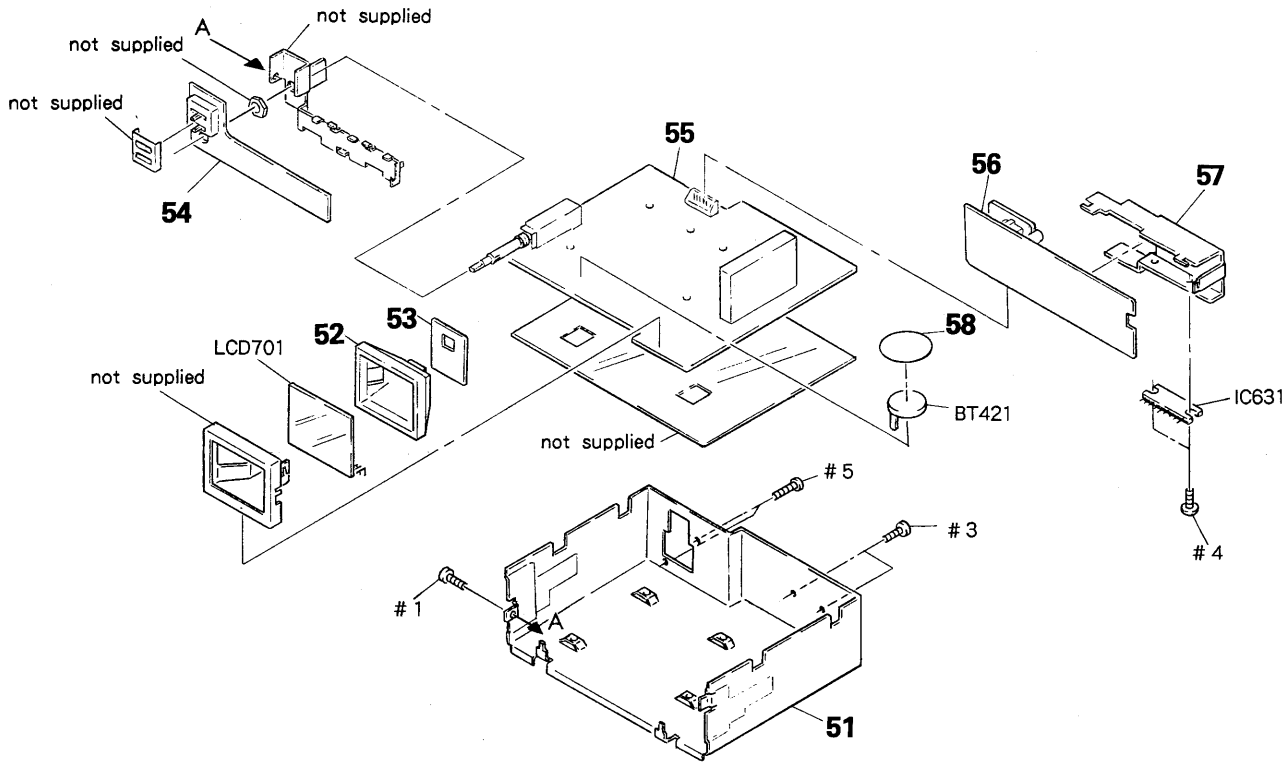
- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of this parts list.

5-1. CHASSIS ASSEMBLY 1



Ref. No.	Part No.	Description	Remarks
1	* X-3364-500-1	HANDLE ASSY	
2	* 3-375-405-01	COVER	
3	X-3362-120-1	KNOB (VOL) ASSY	
4	3-348-079-01	KNOB (FADER)	
5	X-3365-112-1	PANEL, FRONT ASSY	
7	3-375-398-01	KNOB (B/T)	
8	3-375-395-01	BUTTON (B)	
9	3-375-394-01	BUTTON (A)	
10	3-375-413-01	LID, CASSETTE (XR-4350:AEP)	
10	3-375-413-11	LID, CASSETTE (XR-4357)	
10	3-375-413-61	LID, CASSETTE (XR-4350:E, Panama)	
11	3-368-754-01	SPRING, TORSION	
12	3-350-709-01	SHAFT (CASSETTE)	
13	3-375-400-01	BUTTON (FF)	
14	3-375-401-01	BUTTON (REW)	
15	3-375-399-01	BUTTON (EJECT)	
16	3-372-033-11	SCREW (2.6X3), +P	
17	* 3-348-070-01	LEVER (EJECT)	
CNJ901	1-690-633-11	CORD (WITH CONNECTOR) (XR-4350:AEP, E)	
CNJ901	1-690-634-11	CORD (WITH CONNECTOR) (XR-4350:Panama/XR-4357)	
F901	1-576-075-11	FUSE, GLASS TUBE 8A	

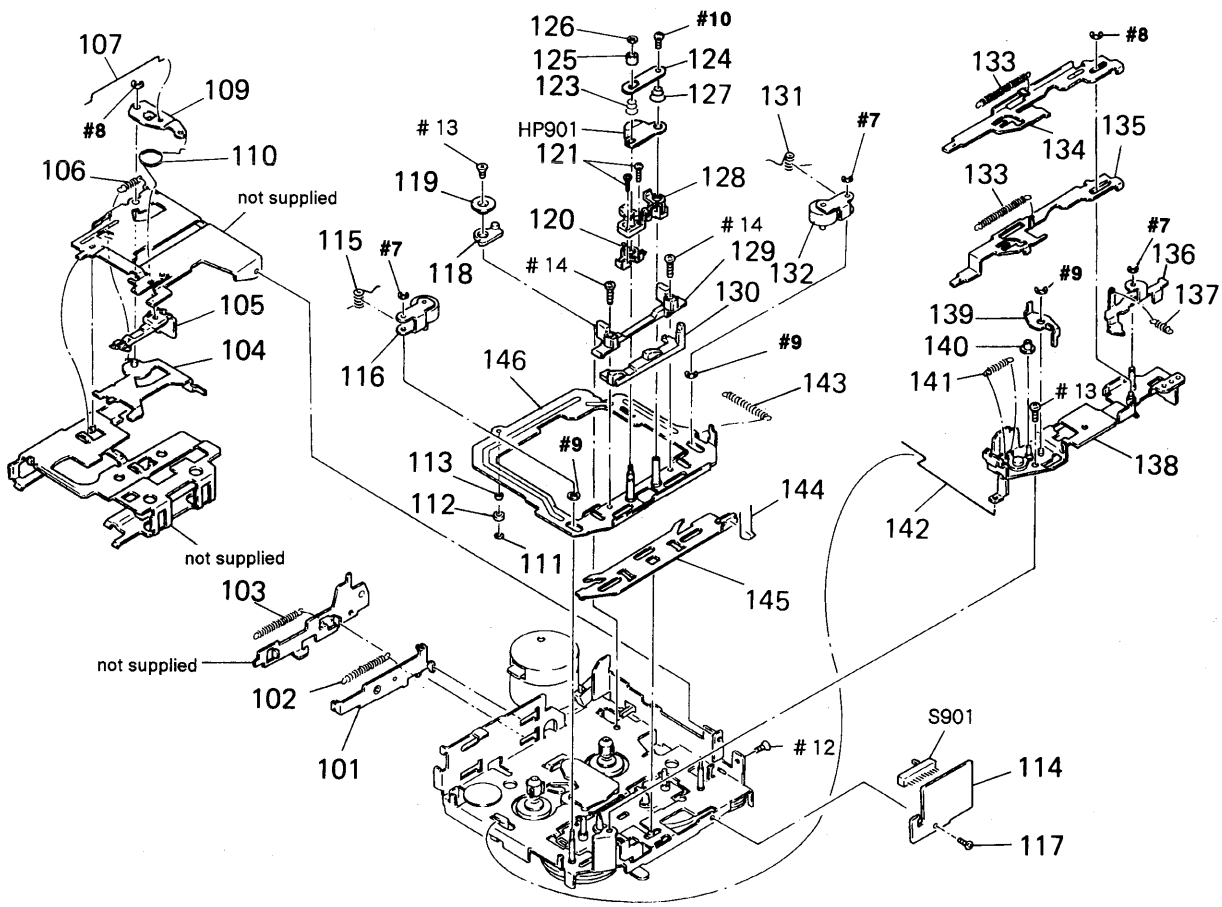
5-2. CHASSIS ASSEMBLY 2



Ref. No.	Part No.	Description	Remarks
51	* X-3364-501-1	CHASSIS ASSY	
52	* 3-375-397-01	COVER (LAMP)	
53	* 1-642-324-13	LAMP BOARD	
54	* A-3273-748-A	CONTROL BOARD, COMPLETE (XR-4350:AEP, Panama)	
54	* A-3273-751-A	CONTROL BOARD, COMPLETE (XR-4350:E/XR-4357)	
55	* A-3222-357-A	MAIN BOARD, COMPLETE (XR-4350:AEP, E)	
55	* A-3222-359-A	MAIN BOARD, COMPLETE (XR-4357)	
55	* A-3222-513-A	MAIN BOARD, COMPLETE (XR-4350:Panama)	

Ref. No.	Part No.	Description	Remarks
56	* A-3273-747-A	POWER BOARD, COMPLETE (XR-4350:AEP/XR-4357)	
56	* A-3295-280-A	POWER BOARD, COMPLETE (XR-4350:E, Panama)	
57	* 3-375-406-01	HEAT SINK	
58	* 3-896-343-01	SHEET, INSULATING	
BT421	1-528-225-31	BATTERY, LITHIUM	
IC631	8-759-243-27	IC TA8215H	
LCD701	1-809-592-11	DISPLAY PANEL, LIQUID CRYSTAL	

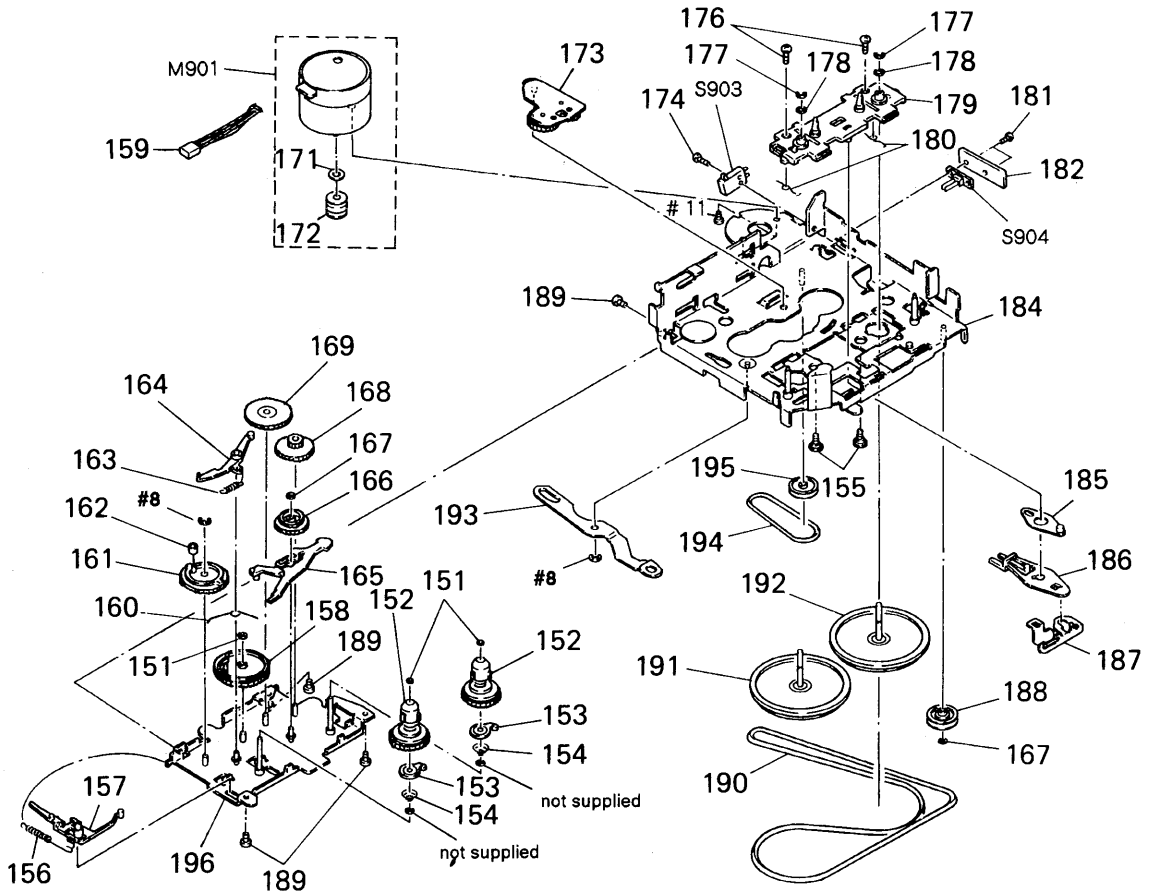
5-3. MD ASSEMBLY 1



Ref. No.	Part No.	Description	Remark
* 101	3-392-978-01	LEVER, EJECT	
102	3-392-950-01	SPRING	
103	3-392-951-01	SPRING	
* 104	3-392-921-01	LOCK ASSY, EJECT CAM	
105	3-392-972-01	HOOKER, TAPE	
106	3-392-953-01	SPRING	
107	3-392-969-01	LINK, RETURN	
* 109	3-392-932-01	PLATE, CENTER	
110	3-392-961-01	SPRING (B)	
111	3-570-615-00	POLY-WASHER (DIA. 1.2)	
112	3-392-945-01	ROLLER (A), H.P	
113	3-392-942-01	ROLLER (B), H.P	
114		SWITCH BOARD	
115	3-392-958-01	SPRING (R)	
116	3-375-378-01	ARM (R) ASSY, PINCH	
# 117	4-908-792-11	SCREW (B2X3), TAPPING, P1	
118	3-372-244-01	ARM (N), MUTE	
* 119	3-397-427-01	COLLAR, MUTE ARM	
120	3-377-908-01	SHIM (X), ADJUSTOR	
121	3-375-379-01	SCREW, AZIMUTH	
123	3-392-956-01	SPRING (A)	
* 124	3-392-930-01	RETAINER, SPRING	
125	3-392-943-01	ROLLER, FF	

Ref. No.	Part No.	Description	Remark
126	3-676-387-00	POLY-SLIDER (DIA. 1.6)	
127	3-392-955-01	SPRING (A)	
128	3-377-910-01	ARM (X), ADJUSTER	
129	3-392-984-01	GUIDE, TAPE	
130	3-377-909-01	LINK (X), ADJUSTER	
131	3-392-957-01	SPRING (F)	
132	3-375-377-01	ARM (F) ASSY, PINCH	
133	3-392-948-01	SPRING	
* 134	3-392-991-01	LEVER (Z), FF	
* 135	3-392-992-01	LEVER (Z), REW	
* 136	3-392-935-01	ARM, LOCK	
137	3-392-917-01	SPRING	
* 138	3-372-242-01	BRACKET ASSY (D), LEVER	
* 139	3-392-933-01	LEVER (B), CHANGE	
140	3-392-994-01	ROLLER, PROGRAM	
141	3-392-954-01	SPRING	
142	3-372-243-01	LINK (B), SELECTOR	
143	3-392-952-01	SPRING	
144	3-392-962-01	SPRING	
* 145	3-392-919-01	ARM ASSY, F, R SELECTION	
* 146	3-392-975-02	PLATE ASSY, HEAD	
HP901	1-543-717-11	HEAD, MAGNETIC (PLAYBACK)	
S901	1-692-036-11	SWITCH, SLIDE	

5-4. MD ASSEMBLY 2



Ref. No.	Part No.	Description	Remark
151	3-676-387-00	POLY-SLIDER (DIA. 1.6)	
152	3-376-196-01	SPINDLE ASSY (S), REEL	
153	3-375-380-01	CAM ASSY, DETECTION	
154	3-370-619-01	SPRING, BACK TENSION	
155	3-392-918-01	SCREW, EJECT HOOK	
156	3-392-959-01	SPRING	
157	3-392-985-02	RATCHET	
158	3-392-990-01	GEAR, DETECTION	
* 159	3-376-195-01	CONNECTOR ASSY (3P)	
160	3-392-960-01	SPRING	
161	3-392-987-01	GEAR, SELECTOR	
162	3-392-944-01	COLLAR (CELECTER GEAR)	
163	3-375-131-01	SPRING, GEAR LOCK ARM	
164	3-392-989-02	ARM, GEAR LOCK	
165	3-392-986-01	ARM, SENSOR	
166	3-392-915-01	GEAR, IDLE	
167	3-570-615-00	POLY-WASHER (DIA. 1.2)	
168	3-392-936-01	GEAR (A)	
169	3-392-937-01	GEAR (B)	
* 171	3-392-912-01	WASHER, MYLAR	
* 172	3-392-913-01	PULLEY, MOTOR	
173	3-392-916-01	ARM ASSY, TU GEAR	

Ref. No.	Part No.	Description	Remark
174	3-318-203-11	SCREW (B1.7X6), TAPPING	
176	3-318-204-81	SCREW (M1.7X3), TAPPING	
177	3-590-768-00	RING (A), E	
178	3-701-437-11	POLY-SLIDER (A)	
* 179	3-375-381-01	BRACKET ASSY (X), CM	
180	3-392-963-01	SPRING (R)	
181	3-318-204-91	SCREW (M1.7X4), TAPPING	
182		MUTE SWTCH BOARD	
* 184	3-392-974-01	CHASSIS ASSY, MAIN	
* 185	3-392-925-01	ARM (A) ASSY, F.R	
* 186	3-392-939-01	ARM, FF	
* 187	3-392-934-01	ARM (B), F.R	
188	3-392-941-01	PULLEY (A), IDLE	
189	4-908-792-11	SCREW (B2X3), TAPPING, P1	
190	3-392-967-01	BELT, MAIN	
191	3-392-995-02	FLYWHEEL ASSY (BR)	
192	3-392-926-02	FLYWHEEL ASSY (BF)	
* 193	3-392-979-01	LEVER, REVERSE	
194	3-375-375-01	BELT (C), SUB	
195	3-392-938-01	GEAR, PULLY	
* 196	3-392-976-01	BASE ASSY, REEL	
M901	X-3364-496-1	MOTOR ASSY	
S903	1-692-065-11	SWITCH, LEAF	
S904	1-554-790-11	SWITCH, POWER	

CONTROL

SECTION 6
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS:
  uF: μF
- RESISTORS
  All resistors are in ohms.
  METAL: metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable
- COILS
  uH: μH
- SEMICONDUCTORS
  In each case, u: μ, for example:
  uA...: μA..., uPA..., μPA..., uPB..., μPB..., uPC..., μPC..., uPD..., μPD...

Ref. No.	Part No.	Description	Remarks
*	A-3273-748-A	CONTROL BOARD, COMPLETE	
		**********	
			(XR-4350:AEP, Panama)
*	A-3273-751-A	CONTROL BOARD, COMPLETE	
		**********	
			(XR-4350:E/XR-4357)
		< CAPACITOR >	
C801	1-163-017-00	CERAMIC CHIP 0.0047uF 5% 50V	
C802	1-164-232-11	CERAMIC CHIP 0.01uF 50V	
C803	1-163-024-00	CERAMIC CHIP 0.018uF 10% 50V	
C804	1-163-809-11	CERAMIC CHIP 0.047uF 10% 25V	
C821	1-163-017-00	CERAMIC CHIP 0.0047uF 5% 50V	
C822	1-164-232-11	CERAMIC CHIP 0.01uF 50V	
C823	1-163-024-00	CERAMIC CHIP 0.018uF 10% 50V	
C824	1-163-809-11	CERAMIC CHIP 0.047uF 10% 25V	
		< CONNECTOR >	
CNJ801 *	1-568-450-11	HOUSING, CONNECTOR(PC BOARD) 4P	
CNJ802 *	1-565-042-11	HOUSING, CONNECTOR(PC BOARD) 5P	
CNJ803 *	1-566-969-11	HOUSING, CONNECTOR(PC BOARD) 7P	
		< DIODE >	
D851	8-719-025-97	DIODE SEL6514C	(XR-4350:AEP, Panama)
D851	8-719-025-98	DIODE SEL6914A	(XR-4350:E/XR-4357)
D852	8-719-025-97	DIODE SEL6514C	(XR-4350:AEP, Panama)
D852	8-719-025-98	DIODE SEL6914A	(XR-4350:E/XR-4357)
D853	8-719-025-97	DIODE SEL6514C	(XR-4350:AEP, Panama)
D853	8-719-025-98	DIODE SEL6914A	(XR-4350:E/XR-4357)
D854	8-719-025-97	DIODE SEL6514C	(XR-4350:AEP, Panama)
D854	8-719-025-98	DIODE SEL6914A	(XR-4350:E/XR-4357)
D855	8-719-025-97	DIODE SEL6514C	(XR-4350:AEP, Panama)
D855	8-719-025-98	DIODE SEL6914A	(XR-4350:E/XR-4357)
D856	8-719-025-97	DIODE SEL6514C	(XR-4350:AEP, Panama)
D856	8-719-025-98	DIODE SEL6914A	(XR-4350:E/XR-4357)
D857	8-719-025-97	DIODE SEL6514C	(XR-4350:AEP, Panama)
D857	8-719-025-98	DIODE SEL6914A	(XR-4350:E/XR-4357)
D858	8-719-025-97	DIODE SEL6514C	(XR-4350:AEP, Panama)
D858	8-719-025-98	DIODE SEL6914A	(XR-4350:E/XR-4357)
D859	8-719-025-97	DIODE SEL6514C	(XR-4350:AEP, Panama)
D859	8-719-025-98	DIODE SEL6914A	(XR-4350:E/XR-4357)
D860	8-719-025-97	DIODE SEL6514C	(XR-4350:AEP, Panama)
D860	8-719-025-98	DIODE SEL6914A	(XR-4350:E/XR-4357)
D861	8-719-025-97	DIODE SEL6514C	(XR-4350:AEP, Panama)
D861	8-719-025-98	DIODE SEL6914A	(XR-4350:E/XR-4357)
D862	8-719-025-97	DIODE SEL6514C	(XR-4350:AEP, Panama)
D862	8-719-025-98	DIODE SEL6914A	(XR-4350:E/XR-4357)
D863	8-719-025-97	DIODE SEL6514C	(XR-4350:AEP, Panama)
D863	8-719-025-98	DIODE SEL6914A	(XR-4350:E/XR-4357)
D864	8-719-025-97	DIODE SEL6514C	(XR-4350:AEP, Panama)
D864	8-719-025-98	DIODE SEL6914A	(XR-4350:E/XR-4357)
D865	8-719-025-97	DIODE SEL6514C	(XR-4350:AEP, Panama)
D865	8-719-025-98	DIODE SEL6914A	(XR-4350:E/XR-4357)
		< JUMPER >	
JR801	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR804	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR806	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR807	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR809	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR810	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR811	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR812	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR813	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR814	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR815	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR821	1-216-296-00	METAL CHIP 0 5% 1/8W	
		< RESISTOR >	
R801	1-216-041-00	METAL CHIP 470 5% 1/10W	
R802	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R803	1-216-091-00	METAL CHIP 56K 5% 1/10W	
R804	1-216-077-00	METAL CHIP 15K 5% 1/10W	
R805	1-216-067-00	METAL CHIP 5.6K 5% 1/10W	

Ref. No.	Part No.	Description			Remarks
R821	1-216-041-00	METAL CHIP	470	5% 1/10W	
R822	1-216-049-00	METAL CHIP	1K	5% 1/10W	
R823	1-216-091-00	METAL CHIP	56K	5% 1/10W	
R824	1-216-077-00	METAL CHIP	15K	5% 1/10W	
R825	1-216-067-00	METAL CHIP	5.6K	5% 1/10W	
R851	1-216-031-00	METAL CHIP	180	5% 1/10W	
R852	1-216-031-00	METAL CHIP	180	5% 1/10W	
R853	1-216-031-00	METAL CHIP	180	5% 1/10W	
R854	1-216-031-00	METAL CHIP	180	5% 1/10W	
R855	1-216-031-00	METAL CHIP	180	5% 1/10W	
R856	1-216-031-00	METAL CHIP	180	5% 1/10W	
R857	1-216-033-00	METAL CHIP	220	5% 1/10W	
R858	1-216-035-00	METAL CHIP	270	5% 1/10W	
		< VARIABLE RESISTOR >			
RV801	1-241-800-11	RES, VAR, SLIDE (TRE)			
RV802	1-241-800-11	RES, VAR, SLIDE (BAS)			
		< SWITCH >			
S851	1-554-813-41	SWITCH, KEY BOARD (1)			
S852	1-554-813-41	SWITCH, KEY BOARD (2)			
S853	1-554-813-41	SWITCH, KEY BOARD (3)			
S854	1-554-813-41	SWITCH, KEY BOARD (4)			
S855	1-554-813-41	SWITCH, KEY BOARD (5)			
S856	1-554-813-41	SWITCH, KEY BOARD (6)			
S857	1-554-813-41	SWITCH, KEY BOARD (+)			
S858	1-554-813-41	SWITCH, KEY BOARD (-)			
S859	1-554-813-41	SWITCH, KEY BOARD (+)			
S860	1-554-813-41	SWITCH, KEY BOARD (-)			
S861	1-554-813-41	SWITCH, KEY BOARD (FM/AM)			
S863	1-554-813-41	SWITCH, KEY BOARD (MONO)			
S864	1-554-813-41	SWITCH, KEY BOARD (LCL)			
**********					
*	1-642-324-13	LAMP BOARD			
		**********			
*	3-375-397-01	COVER (LAMP)			
		< CONNECTOR >			
CNJ701 *	1-566-673-11	SOCKET, CONNECTOR 4P			
		< PILOT LAMP >			
PL761	1-518-694-11	LAMP, PILOT (XR-4350:AEP, Panama)			
PL761	1-518-694-21	LAMP, PILOT (XR-4357)			
PL761	1-518-694-41	LAMP, PILOT (XR-4350:E)			
PL762	1-518-694-11	LAMP, PILOT (XR-4350:AEP, Panama)			
PL762	1-518-694-21	LAMP, PILOT (XR-4357)			
PL762	1-518-694-41	LAMP, PILOT (XR-4350:E)			

Ref. No.	Part No.	Description			Remarks
		< RESISTOR >			
R761	1-249-406-11	CARBON	120	5% 1/4W	(XR-4350:AEP, Panama)
R761	1-249-408-11	CARBON	180	5% 1/4W	(XR-4350:E/XR-4357)
R762	1-249-406-11	CARBON	120	5% 1/4W	(XR-4350:AEP ,Panama)
R762	1-249-408-11	CARBON	180	5% 1/4W	(XR-4350:E/XR-4357)
R763	1-249-406-11	CARBON	120	5% 1/4W	(XR-4350:AEP ,Panama)
R763	1-249-408-11	CARBON	180	5% 1/4W	(XR-4350:E/XR-4357)
R764	1-249-406-11	CARBON	120	5% 1/4W	(XR-4350:AEP ,Panama)
R764	1-249-408-11	CARBON	180	5% 1/4W	(XR-4350:E/XR-4357)
**********					
*	A-3222-357-A	MAIN BOARD, COMPLETE (XR-4350:AEP, E)			
		**********			
*	A-3222-359-A	MAIN BOARD, COMPLETE (XR-4357)			
		**********			
*	A-3222-513-A	MAIN BOARD, COMPLETE (XR-4350:Panama)			
		**********			
*	3-896-343-01	SHEET, INSULATING			
		< BATTERY >			
BT421	1-528-225-31	BATTERY, LITHIUM			
		< CAPACITOR >			
C1	1-163-097-00	CERAMIC CHIP	15PF	5% 50V	
C2	1-163-037-11	CERAMIC CHIP	0.022uF	10% 25V	
C3	1-163-097-00	CERAMIC CHIP	15PF	5% 50V	
C4	1-124-589-11	ELECT	47uF	20% 16V	
C5	1-163-037-11	CERAMIC CHIP	0.022uF	10% 25V	
C7	1-163-037-11	CERAMIC CHIP	0.022uF	10% 25V	
C8	1-126-157-11	ELECT	10uF	20% 16V	
C9	1-163-037-11	CERAMIC CHIP	0.022uF	10% 25V	
C10	1-163-037-11	CERAMIC CHIP	0.022uF	10% 25V	
C11	1-163-809-11	CERAMIC CHIP	0.047uF	10% 25V	
C12	1-163-809-11	CERAMIC CHIP	0.047uF	10% 25V	
C13	1-163-017-00	CERAMIC CHIP	0.0047uF	5% 50V	
C14	1-164-232-11	CERAMIC CHIP	0.01uF	50V	
C15	1-123-382-00	ELECT	3.3uF	20% 50V	(XR-4350:Panama)
C15	1-126-161-11	ELECT	2.2uF	20% 35V	(EXCEPT XR-4350:Panama)
C16	1-163-037-11	CERAMIC CHIP	0.022uF	10% 25V	
C17	1-164-004-11	CERAMIC CHIP	0.1uF	10% 25V	
C18	1-163-237-11	CERAMIC CHIP	27PF	5% 50V	
C19	1-163-235-11	CERAMIC CHIP	22PF	5% 50V	
C20	1-124-229-00	ELECT	33uF	20% 10V	

MAIN

Ref. No.	Part No.	Description				Remarks
C21	1-163-001-11	CERAMIC CHIP	220PF	10%	50V	
C22	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V	
C23	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C24	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V	
C25	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V	
C26	1-126-157-11	ELECT	10uF	20%	16V	
C27	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V	
C28	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V	
C29	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V	
C30	1-124-229-00	ELECT	33uF	20%	10V	
C31	1-126-159-11	ELECT	0.47uF	20%	50V	
C32	1-126-301-11	ELECT	1uF	20%	50V	
C33	1-124-463-00	ELECT	0.1uF	20%	50V	
C34	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C35	1-126-157-11	ELECT	10uF	20%	16V	
C36	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C37	1-136-162-00	FILM	0.056uF	5%	50V	
C38	1-126-301-11	ELECT	1uF	20%	50V	
C41	1-163-024-00	CERAMIC CHIP	0.018uF	10%	50V	(XR-4350:AEP, E)
C41	1-163-986-00	CERAMIC CHIP	0.027uF	10%	25V	(XR-4350:Panama/XR-4357)
C42	1-163-024-00	CERAMIC CHIP	0.018uF	10%	50V	(XR-4350:AEP, E)
C42	1-163-986-00	CERAMIC CHIP	0.027uF	10%	25V	(XR-4350:Panama/XR-4357)
C43	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C44	1-124-463-00	ELECT	0.1uF	20%	50V	
C45	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V	(XR-4350:AEP, E)
C45	1-163-023-00	CERAMIC CHIP	0.015uF	10%	50V	(XR-4350:Panama/XR-4357)
C46	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C101	1-163-010-11	CERAMIC CHIP	0.0012uF	10%	50V	
C102	1-126-301-11	ELECT	1uF	20%	50V	
C103	1-163-121-00	CERAMIC CHIP	150PF	5%	50V	
C104	1-136-171-00	FILM	0.033uF	5%	50V	
C105	1-124-584-00	ELECT	100uF	20%	10V	
C111	1-126-162-11	ELECT	3.3uF	20%	50V	
C112	1-126-162-11	ELECT	3.3uF	20%	50V	
C113	1-163-003-11	CERAMIC CHIP	330PF	10%	50V	
C114	1-126-163-11	ELECT	4.7uF	20%	50V	
C115	1-126-163-11	ELECT	4.7uF	20%	50V	
C121	1-126-162-11	ELECT	3.3uF	20%	50V	
C201	1-163-010-11	CERAMIC CHIP	0.0012uF	10%	50V	
C202	1-126-301-11	ELECT	1uF	20%	50V	
C203	1-163-121-00	CERAMIC CHIP	150PF	5%	50V	
C204	1-136-171-00	FILM	0.033uF	5%	50V	
C205	1-124-584-00	ELECT	100uF	20%	10V	
C211	1-126-162-11	ELECT	3.3uF	20%	50V	
C212	1-126-162-11	ELECT	3.3uF	20%	50V	
C213	1-163-003-11	CERAMIC CHIP	330PF	10%	50V	
C214	1-126-163-11	ELECT	4.7uF	20%	50V	
C215	1-126-163-11	ELECT	4.7uF	20%	50V	
C221	1-126-162-11	ELECT	3.3uF	20%	50V	
C301	1-124-589-11	ELECT	47uF	20%	16V	
C311	1-124-589-11	ELECT	47uF	20%	16V	
C321	1-126-161-11	ELECT	2.2uF	20%	35V	
C351	1-163-121-00	CERAMIC CHIP	150PF	5%	50V	
C352	1-163-121-00	CERAMIC CHIP	150PF	5%	50V	
C353	1-162-587-11	CERAMIC CHIP	0.039uF	10%	25V	
C401	1-126-934-11	ELECT	220uF	20%	16V	
C421	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C422	1-124-589-11	ELECT	47uF	20%	16V	
C423	1-124-584-00	ELECT	100uF	20%	10V	
C424	1-124-584-00	ELECT	100uF	20%	10V	
C425	1-126-157-11	ELECT	10uF	20%	16V	
C426	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V	
C441	1-126-157-11	ELECT	10uF	20%	16V	
C442	1-124-589-11	ELECT	47uF	20%	16V	
C443	1-126-934-11	ELECT	220uF	20%	16V	
C444	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V	
C445	1-126-161-11	ELECT	2.2uF	20%	35V	
C446	1-124-463-00	ELECT	0.1uF	20%	50V	
C501	1-124-229-00	ELECT	33uF	20%	10V	
C701	1-163-235-11	CERAMIC CHIP	22PF	5%	50V	
C702	1-163-234-11	CERAMIC CHIP	20PF	5%	50V	
C703	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V	
C704	1-126-916-11	ELECT	1000uF	20%	6.3V	
C705	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V	
C706	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C707	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V	
C710	1-161-055-00	CERAMIC	0.022uF	10%	50V	
C711	1-163-205-00	CERAMIC CHIP	0.001uF	5%	50V	
C712	1-163-205-00	CERAMIC CHIP	0.001uF	5%	50V	
C751	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V	
C752	1-126-163-11	ELECT	4.7uF	20%	50V	
C753	1-126-163-11	ELECT	4.7uF	20%	50V	
C754	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V	
C901	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
		< FILTER >				
CF11	1-579-554-21	FILTER, CERAMIC (10.7MHz)				
		< CONNECTOR >				
CNP401 *	1-691-544-11	PIN, CONNECTOR (PC BOARD) 11P				
CNP601 *	1-506-743-11	PIN, CONNECTOR 5P				
CNP602 *	1-568-714-11	PIN, CONNECTOR 7P				
CNP603 *	1-691-546-11	SOCKET, CONNECTOR (PC BOARD) 6P				
CNP701 *	1-566-672-11	PIN, CONNECTOR 4P				
CNP801 *	1-568-453-11	PIN, CONNECTOR (PC BOARD) 4P				
CNP802 *	1-565-041-11	PIN, CONNECTOR (PC BOARD) 5P				
CNP803 *	1-566-972-11	PIN, CONNECTOR (PC BOARD) 7P				

Ref. No.	Part No.	Description	Remarks
		< DIODE >	
D1	8-719-110-49	DIODE RD18ESB2	
D2	8-719-110-49	DIODE RD18ESB2	
D3	8-719-911-19	DIODE 1SS119	
D4	8-719-911-19	DIODE 1SS119	
D5	8-719-911-19	DIODE 1SS119	
D6	8-719-911-19	DIODE 1SS119	
D11	8-719-911-19	DIODE 1SS119	
D12	8-719-911-19	DIODE 1SS119	
D13	8-719-911-19	DIODE 1SS119	
D14	8-719-911-19	DIODE 1SS119	
D101	8-719-911-19	DIODE 1SS119	
D201	8-719-911-19	DIODE 1SS119	
D301	8-719-911-19	DIODE 1SS119	
D401	8-719-911-19	DIODE 1SS119	
D402	8-719-110-13	DIODE RD9.1ESB2	
D421	8-719-911-19	DIODE 1SS119	
D422	8-719-911-19	DIODE 1SS119	
D423	8-719-911-19	DIODE 1SS119	
D424	8-719-109-89	DIODE RD5.6ESB2	
D425	8-719-921-75	DIODE MTZN-10B	
D426	8-719-911-19	DIODE 1SS119	
D427	8-719-911-19	DIODE 1SS119	
D428	8-719-109-85	DIODE RD5.1ESB2	
D429	8-719-911-19	DIODE 1SS119	
D441	8-719-911-19	DIODE 1SS119	
D442	8-719-911-19	DIODE 1SS119	
D443	8-719-911-19	DIODE 1SS119	
D444	8-719-110-13	DIODE RD9.1ESB2	
D445	8-719-911-19	DIODE 1SS119	
D651	8-719-200-82	DIODE 11ES2	
D652	8-719-200-82	DIODE 11ES2	
D653	8-719-200-82	DIODE 11ES2	
D654	8-719-200-82	DIODE 11ES2	
D655	8-719-200-82	DIODE 11ES2	
D702	8-719-911-19	DIODE 1SS119 (XR-4350:AEP, E)	
D704	8-719-911-19	DIODE 1SS119	
D705	8-719-911-19	DIODE 1SS119	
D706	8-719-911-19	DIODE 1SS119	
D707	8-719-911-19	DIODE 1SS119	
D708	8-719-911-19	DIODE 1SS119	
D709	8-719-911-19	DIODE 1SS119	
D710	8-719-911-19	DIODE 1SS119	
D711	8-719-911-19	DIODE 1SS119	
D712	8-719-911-19	DIODE 1SS119	
D713	8-719-911-19	DIODE 1SS119	
D714	8-719-911-19	DIODE 1SS119	
D715	8-719-911-19	DIODE 1SS119	
D716	8-719-911-19	DIODE 1SS119	
D717	8-719-911-19	DIODE 1SS119	
D718	8-719-911-19	DIODE 1SS119	
D720	8-719-911-19	DIODE 1SS119	
D721	8-719-109-85	DIODE RD5.1ES-B2	
D777	8-719-911-19	DIODE 1SS119 (XR-4350:Panama)	
		< IC >	
IC11	8-759-246-22	IC TA8172AF	
IC301	8-759-046-31	IC BA328F	
IC311	8-759-909-71	IC BA4558F	
IC701	8-759-060-91	IC uPD1723GF-589-3BE	
		< JUMPER >	
JR1	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR3	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR4	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR5	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR6	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR7	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR8	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR9	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR10	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR11	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR12	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR22	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR23	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR24	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR25	1-216-296-00	METAL CHIP 0 5% 1/8W	
		< COIL >	
L1	1-410-316-11	INDUCTOR 1uH	
L2	1-410-324-11	INDUCTOR 4.7uH	
L3	1-410-513-11	INDUCTOR 22uH	
L4	1-410-184-51	INDUCTOR CHIP 0.22uH	
L11	1-410-501-11	INDUCTOR 2.2uH	
		< LCD >	
LCD701	1-809-592-11	DISPLAY PANEL, LIQUID CRYSTAL	
		< TRANSISTOR >	
Q1	8-729-920-08	TRANSISTOR DTC124TK	
Q111	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q121	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q122	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q211	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q221	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q222	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q401	8-729-920-85	TRANSISTOR 2SD1664-QR	
Q404	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q405	8-729-205-02	TRANSISTOR 2SA1150	

MAIN

Ref. No.	Part No.	Description		Remarks
Q406	8-729-920-08	TRANSISTOR	DTC124TK	
Q407	8-729-119-76	TRANSISTOR	2SA1175-HFE	
Q408	8-729-119-76	TRANSISTOR	2SA1175-HFE	
Q409	8-729-920-08	TRANSISTOR	DTC124TK	
Q421	8-729-967-32	TRANSISTOR	2SC2673	
Q422	8-729-102-14	TRANSISTOR	2SD1021	
Q423	8-729-119-76	TRANSISTOR	2SA1175-HFE	
Q424	8-729-119-78	TRANSISTOR	2SC2785-HFE	
Q501	8-729-205-02	TRANSISTOR	2SA1150	
Q502	8-729-119-78	TRANSISTOR	2SC2785-HFE	
Q701	8-729-920-74	TRANSISTOR	2SC2412K-QR	
Q702	8-729-920-74	TRANSISTOR	2SC2412K-QR	
Q751	8-729-924-99	TRANSISTOR	2SC3722K-E	
Q752	8-729-924-99	TRANSISTOR	2SC3722K-E	
		< RESISTOR >		
R1	1-216-005-00	METAL CHIP	15 5% 1/8W	
R2	1-216-295-00	METAL CHIP	0 5% 1/10W	
R3	1-216-067-00	METAL CHIP	5.6K 5% 1/8W	
R4	1-216-005-00	METAL CHIP	15 5% 1/10W	
R5	1-216-073-00	METAL CHIP	10K 5% 1/10W	
R6	1-216-073-00	METAL CHIP	10K 5% 1/10W	
R7	1-216-174-00	METAL GLAZE	100 5% 1/8W	
R8	1-216-091-00	METAL CHIP	56K 5% 1/10W	
R10	1-216-073-00	METAL CHIP	10K 5% 1/10W	
R11	1-216-039-00	METAL CHIP	390 5% 1/10W	
R12	1-216-073-00	METAL CHIP	10K 5% 1/10W	
R13	1-216-090-00	METAL CHIP	51K 5% 1/10W	
R14	1-216-068-00	METAL CHIP	6.2K 5% 1/10W	
R15	1-216-655-00	METAL CHIP	1.8K 5% 1/10W	
R16	1-216-046-00	METAL CHIP	750 5% 1/10W	
R17	1-216-053-00	METAL CHIP	1.5K 5% 1/10W	
R18	1-249-395-11	CARBON	15 5% 1/4W	
R19	1-216-057-00	METAL CHIP	2.2K 5% 1/10W	
R20	1-216-061-00	METAL CHIP	3.3K 5% 1/10W	
R21	1-216-077-00	METAL CHIP	15K 5% 1/10W	
R22	1-216-005-00	METAL CHIP	15 5% 1/10W	
R25	1-216-081-00	METAL CHIP	22K 5% 1/10W	
R26	1-216-073-00	METAL CHIP	10K 5% 1/10W	
R27	1-216-061-00	METAL CHIP	3.3K 5% 1/10W	
R28	1-216-077-00	METAL CHIP	15K 5% 1/10W	
R29	1-216-071-00	METAL CHIP	8.2K 5% 1/10W	
R30	1-216-065-00	METAL CHIP	4.7K 5% 1/10W	
R31	1-216-077-00	METAL CHIP	15K 5% 1/10W	
R32	1-216-075-00	METAL CHIP	12K 5% 1/10W	
R33	1-216-083-00	METAL CHIP	27K 5% 1/10W	(XR-4350:AEP, E)
R33	1-216-089-00	METAL CHIP	47K 5% 1/10W	(XR-4350:Panama/XR-4357)
R34	1-216-083-00	METAL CHIP	27K 5% 1/10W	(XR-4350:AEP, E)
R34	1-216-089-00	METAL CHIP	47K 5% 1/10W	(XR-4350:Panama/XR-4357)
R35	1-216-061-00	METAL CHIP	3.3K 5% 1/10W	
R36	1-216-061-00	METAL CHIP	3.3K 5% 1/10W	
R37	1-216-655-00	METAL CHIP	1.8K 5% 1/10W	
R38	1-216-041-00	METAL CHIP	470 5% 1/10W	
R39	1-216-081-00	METAL CHIP	22K 5% 1/10W	(XR-4350:AEP, E)
R39	1-216-085-00	METAL CHIP	33K 5% 1/10W	(XR-4350:Panama/XR-4357)
R77	1-249-432-11	METAL CHIP	18K 5% 1/4W	(XR-4350:Panama)
R101	1-216-097-00	METAL CHIP	100K 5% 1/10W	
R102	1-216-062-00	METAL CHIP	3.6K 5% 1/10W	
R103	1-216-013-00	METAL CHIP	33 5% 1/10W	
R104	1-216-049-00	METAL CHIP	1K 5% 1/10W	
R105	1-216-091-00	METAL CHIP	56K 5% 1/10W	
R111	1-216-085-00	METAL CHIP	33K 5% 1/10W	
R112	1-216-065-00	METAL CHIP	4.7K 5% 1/10W	
R113	1-216-097-00	METAL CHIP	100K 5% 1/10W	
R114	1-216-246-00	METAL GLAZE	100K 5% 1/8W	
R115	1-216-097-00	METAL CHIP	100K 5% 1/10W	
R116	1-216-234-00	METAL GLAZE	33K 5% 1/8W	
R117	1-216-097-00	METAL CHIP	100K 5% 1/10W	
R121	1-216-065-00	METAL CHIP	4.7K 5% 1/10W	
R122	1-216-051-00	METAL CHIP	1.2K 5% 1/10W	
R123	1-216-097-00	METAL CHIP	100K 5% 1/10W	
R124	1-216-097-00	METAL CHIP	100K 5% 1/10W	
R125	1-216-073-00	METAL CHIP	10K 5% 1/10W	
R126	1-216-085-00	METAL CHIP	33K 5% 1/10W	
R201	1-216-097-00	METAL CHIP	100K 5% 1/10W	
R202	1-216-062-00	METAL CHIP	3.6K 5% 1/10W	
R203	1-216-013-00	METAL CHIP	33 5% 1/10W	
R204	1-216-049-00	METAL CHIP	1K 5% 1/10W	
R205	1-216-091-00	METAL CHIP	56K 5% 1/10W	
R211	1-216-085-00	METAL CHIP	33K 5% 1/10W	
R212	1-216-065-00	METAL CHIP	4.7K 5% 1/10W	
R213	1-216-097-00	METAL CHIP	100K 5% 1/10W	
R214	1-216-097-00	METAL CHIP	100K 5% 1/10W	
R215	1-216-097-00	METAL CHIP	100K 5% 1/10W	
R216	1-216-234-00	METAL GLAZE	33K 5% 1/8W	
R217	1-216-097-00	METAL CHIP	100K 5% 1/10W	
R221	1-216-065-00	METAL CHIP	4.7K 5% 1/10W	
R222	1-216-051-00	METAL CHIP	1.2K 5% 1/10W	
R223	1-216-097-00	METAL CHIP	100K 5% 1/10W	
R224	1-216-097-00	METAL CHIP	100K 5% 1/10W	
R225	1-216-073-00	METAL CHIP	10K 5% 1/10W	

MAIN | **MUTE SWITCH** | **POWER**

Ref. No.	Part No.	Description				Remarks
R226	1-216-085-00	METAL CHIP	33K	5%	1/10W	
R301	1-216-005-00	METAL CHIP	15	5%	1/10W	
R302	1-249-395-11	CARBON	15	5%	1/4W	
R311	1-249-395-11	CARBON	15	5%	1/4W	
R351	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R401	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R405	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R406	1-216-069-00	METAL CHIP	6.8K	5%	1/10W	
R407	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R408	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R409	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R410	1-216-069-00	METAL CHIP	6.8K	5%	1/10W	
R421	1-216-188-00	METAL GLAZE	390	5%	1/8W	
R422	1-216-188-00	METAL GLAZE	390	5%	1/8W	
R423	1-249-393-11	CARBON	10	5%	1/4W	
R424	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R425	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R426	1-216-029-00	METAL CHIP	150	5%	1/10W	
R427	1-216-079-00	METAL CHIP	18K	5%	1/10W	
R428	1-216-077-00	METAL CHIP	15K	5%	1/10W	
R429	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R430	1-216-085-00	METAL CHIP	33K	5%	1/10W	
R431	1-216-079-00	METAL CHIP	18K	5%	1/10W	
R432	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R441	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R442	1-216-067-00	METAL CHIP	5.6K	5%	1/10W	
R443	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R444	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R445	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R446	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R447	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R448	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R449	1-216-093-00	METAL CHIP	68K	5%	1/10W	
R450	1-249-389-11	CARBON	4.7	5%	1/4W	
R451	1-249-389-11	CARBON	4.7	5%	1/4W	
R452	1-216-090-00	METAL CHIP	51K	5%	1/10W	
R501	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R502	1-216-051-00	METAL CHIP	1.2K	5%	1/10W	
R503	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R701	1-216-748-11	METAL CHIP	39K	1%	1/10W	
R702	1-249-429-11	CARBON	10K	5%	1/4W	
R703	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R704	1-216-105-00	METAL CHIP	220K	5%	1/10W	
R705	1-216-105-00	METAL CHIP	220K	5%	1/10W	
R751	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R752	1-216-053-00	METAL CHIP	1.5K	5%	1/10W	
R753	1-216-121-00	METAL CHIP	1M	5%	1/10W	
R754	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R755	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R756	1-216-053-00	METAL CHIP	1.5K	5%	1/10W	
R757	1-216-073-00	METAL CHIP	10K	5%	1/10W	

Ref. No.	Part No.	Description				Remarks
		< VARIABLE RESISTOR >				
RV1	1-238-600-11	RES, ADJ, CARBON 10K				
RV11	1-238-600-11	RES, ADJ, CARBON 10K				
RV311	1-241-799-11	RES, VAR (WITH SWITCH) (VOL)				
		< TRANSFORMER >				
T11	1-404-955-11	TRANSFORMER, IF				
		< TUNER UNIT >				
TU1	1-693-000-11	TUNER UNIT (FM/AM)				
		< CRYSTAL >				
X11	1-579-278-11	VIBLATOR, CERAMIC 456kHz				
X701	1-567-713-11	VIBRATOR, CRYSTAL 4.5MHz				
**********						
		MUTE SWITCH BOARD				
		**********				
S904	1-554-790-11	SWITCH, POWER				
**********						
*	A-3273-747-A	POWER BOARD, COMPLETE				
		**********				
						(XR-4350:AEP/XR-4357)
*	A-3295-280-A	POWER BOARD, COMPLETE				
		**********				
						(XR-4350:E, Panama)
*	3-375-406-01	HEAT SINK				
	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S				
		< CAPACITOR >				
C601	1-102-106-00	CERAMIC	100PF	10%	50V	
C602	1-102-106-00	CERAMIC	100PF	10%	50V	
C603	1-101-005-00	CERAMIC	22000PF		50V	
C604	1-102-106-00	CERAMIC	100PF	10%	50V	
C605	1-102-106-00	CERAMIC	100PF	10%	50V	
C607	1-124-343-00	ELECT	2200uF	20%	16V	
C608	1-124-360-00	ELECT	1000uF	20%	16V	
C611	1-126-601-11	ELECT	2.2uF	20%	50V	
C612	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C613	1-124-638-11	ELECT	22uF	20%	10V	
C614	1-136-170-00	FILM	0.27uF	5%	50V	
C615	1-136-170-00	FILM	0.27uF	5%	50V	
C621	1-126-601-11	ELECT	2.2uF	20%	50V	
C622	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C623	1-124-638-11	ELECT	22uF	20%	10V	

POWER SWITCH

Ref. No.	Part No.	Description				Remarks
C624	1-136-170-00	FILM	0.27uF	5%	50V	
C625	1-136-170-00	FILM	0.27uF	5%	50V	
C631	1-124-584-00	ELECT	100uF	20%	10V	
C632	1-126-163-11	ELECT	4.7uF	20%	50V	
		< CONNECTOR >				
CNJ601 *	1-563-257-11	SOCKET, CONNECTOR 5P				
CNJ602 *	1-568-715-11	SOCKET, CONNECTOR 7P				
CNJ603 *	1-691-545-11	PIN, CONNECTOR (PC BOARD) 6P				
CNP611	1-580-979-11	PLUG, CONNECTOR 20P				
		< DIODE >				
D631	8-719-109-85	DIODE RD5.1ESB2				
		< FERRITE BEAD >				
FB601	1-410-397-21	FERRITE BEAD INDUCTOR				
FB602	1-410-397-21	FERRITE BEAD INDUCTOR				
FB603	1-410-396-41	FERRITE BEAD INDUCTOR				
		< IC >				
IC631	8-759-243-27	IC TA8215H (XR-4350:AEP/XR-4357)				
IC631	8-759-156-00	IC TA8221AH (XR-4350:E, Panama)				
		< TRANSISTOR >				
Q631	8-729-119-76	TRANSISTOR 2SA1175-HFE				
		< RESISTOR >				
R611	1-249-420-11	CARBON	1.8K	5%	1/4W	
R612	1-216-037-00	METAL CHIP	330	5%	1/10W	
R613	1-249-383-11	CARBON	1.5	5%	1/6W	
R614	1-249-383-11	CARBON	1.5	5%	1/6W	
R621	1-249-420-11	CARBON	1.8K	5%	1/4W	
R622	1-216-037-00	METAL CHIP	330	5%	1/10W	
R623	1-249-383-11	CARBON	1.5	5%	1/6W	
R624	1-249-383-11	CARBON	1.5	5%	1/6W	
R631	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R632	1-216-091-00	METAL CHIP	56K	5%	1/10W	
R633	1-216-053-00	METAL CHIP	1.5K	5%	1/10W	
R634	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R635	1-249-415-11	CARBON	680	5%	1/4W	
		< THERMISTOR >				
THP601	1-809-148-11	THERMISTOR, POSITIVE				

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Ref. No.	Part No.	Description	Remarks
		SWITCH BOARD	
		**********	
S901	1-692-036-11	SWITCH, SLIDE	

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MISCELLANEOUS
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CNJ901	1-690-633-11	CORD (WITH CONNECTOR) (XR-4350:AEP, E)	
CNJ901	1-690-634-11	CORD (WITH CONNECTOR) (XR-4350:Panama/XR-4357)	
HP901	1-543-717-11	HEAD, MAGNETIC (PLAYBACK)	
M901	X-3364-496-1	MOTOR ASSY	
S903	1-692-065-11	SWITCH, LEAF	
F901	1-576-075-11	FUSE, GLASE TUBE 8A	

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ACCESSORIES & PACKING MATERIALS
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	3-340-687-01	KNOB (HANDLE FITTING)	
*	3-375-415-01	LABEL, MODEL NUMBER (AEP, E)	
*	3-375-416-01	LABEL, MODEL NUMBER (US)	
*	3-375-417-01	LABEL, MODEL NUMBER (Canadian)	
	7-621-255-20	SCREW +P 2X4	
	3-754-727-11	MANUAL, INSTRUCTION (ENGLISH/FRENCH/SPANISH/DUTCH) (XR-4350:AEP)	
	3-754-727-21	MANUAL, INSTRUCTION (ENGLISH/FRENCH) (XR-4357)	
	3-754-727-41	MANUAL, INSTRUCTION (SWEDISH/ITALIAN/PORTUGUESE) (XR-4350:AEP)	
	3-754-727-51	MANUAL, INSTRUCTION (FINNISH/DANISH) (XR-4350)	
	3-754-727-61	MANUAL, INSTRUCTION (ENGLISH/SPANISH/CHINESE/ARABIC) (XR-4350:E, Panama)	
	3-754-728-11	MANUAL, INSTRUCTION INSTALL (ENGLISH/FRENCH/SPANISH/DUTCH) (XR-4350:AEP)	
	3-754-728-21	MANUAL, INSTRUCTION INSTALL (ENGLISH/FRENCH) (XR-4357)	
	3-754-728-41	MANUAL, INSTRUCTION INSTALL (SWEDISH/ITALIAN/PORTUGUESE) (XR-4350:AEP)	
	3-754-728-51	MANUAL, INSTRUCTION INSTALL (FINNISH/DANISH) (XR-4350)	
	3-754-728-61	MANUAL, INSTRUCTION INSTALL (ENGLISH/SPANISH/CHINESE/ARABIC) (XR-4350:E, Panama)	

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Ref. No.	Part No.	Description	Remarks
		MOUNTING HARDWARE	
		**********	
251	3-349-410-01	BUSHING	
252	7-682-583-04	SCREW +P 5X40	
253	7-684-025-04	N 5, TYPE 2	

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Ref. No.	Part No.	Description	Remarks
		HARDWARE LIST	
		**********	
#1	7-621-770-87	SCREW +PTT 2.6X5 (S)	
#2	7-621-773-86	SCREW +P 2.6X4	
#3	7-685-133-19	SCREW +P 2.6X6 TYPE2	
#4	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
#5	7-621-770-XX	SCREW +PTT 2.6X8 (S)	
#6	7-682-548-04	SCREW +P 3X8	
#7	7-624-102-04	STOP RING 1.5, TYPE -E	
#8	7-624-104-04	STOP RING 2.0, TYPE -E	
#9	7-624-118-01	RING, RETAINING E-2.5	
#10	7-627-553-48	SCREW, PRECISION +P 2X4	
#11	7-621-770-67	SCREW +PTT 2.6X6 (S)	
#12	7-621-255-15	SCREW +P 2X3	
#13	7-621-255-25	SCREW +P 2X4	
#14	7-627-553-88	SCREW, PRECISION +P 2X7	

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Mobile Electronics Group

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